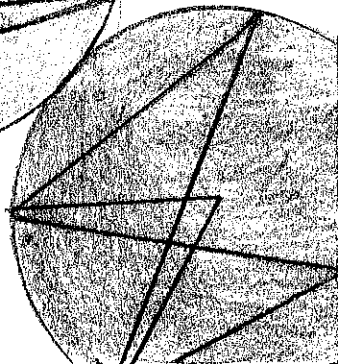
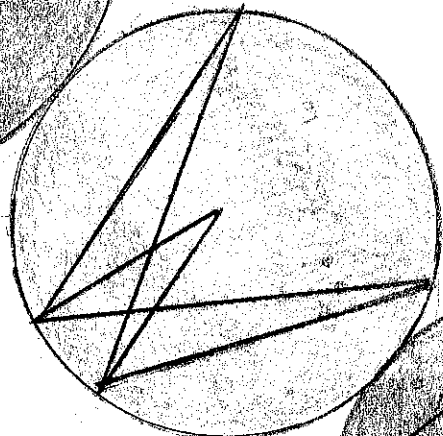
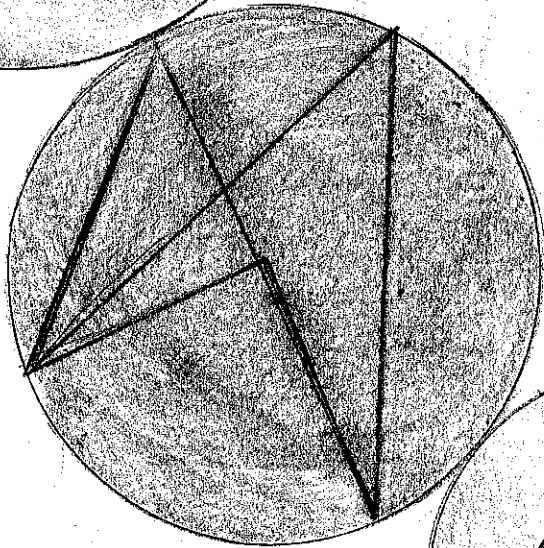
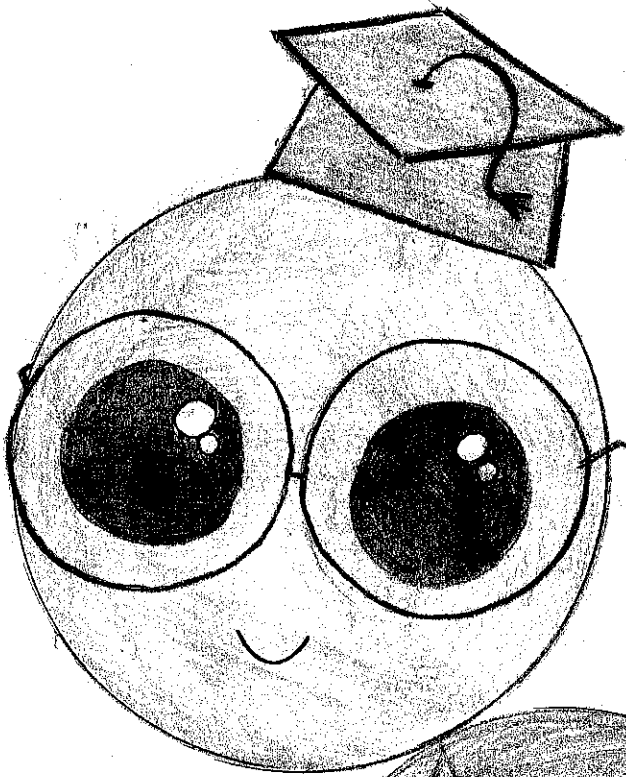


CIRCLE THEOREMS



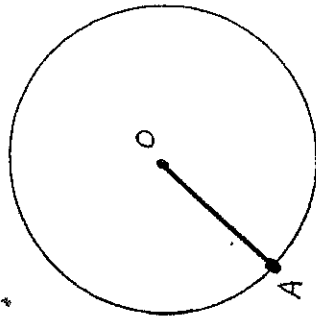
CIRCLE INVESTIGATIONS - TOP SCHOOLS

EXPERIMENT N° 1: ANGLE AOB = 60°

STEP 1 DRAW A CIRCLE AND MARK A POINT "A" ON THE CIRCUMFERENCE.

DRAW THE RADIUS FROM

"O", THE CENTRE, TO A.....



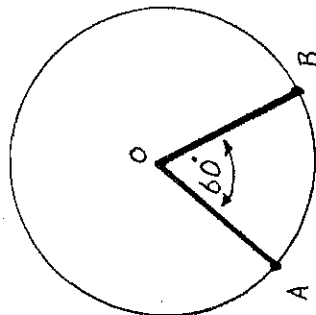
STEP 2 MEASURE AN ANGLE OF 60° ABOUT "O" FROM RADIUS "OA"

AND MARK A SECOND POINT ON THE CIRCUMFERENCE.

CALL THIS POINT "B" AND

DRAW A SECOND RADIUS

FROM "O" TO THIS NEW POINT.

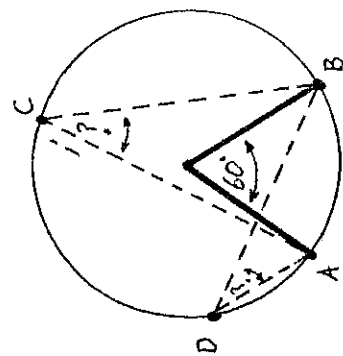
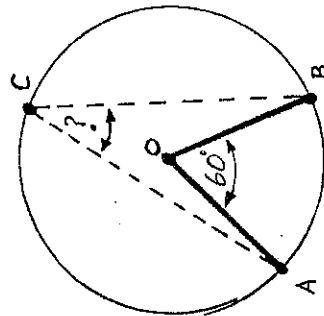


STEP 3 PICK A POINT C ON THE CIRCUMFERENCE OF THE CIRCLE.

[ON THE MAJOR ARC AB]

DRAW CHORDS AC AND BC AND MEASURE THE ANGLE BETWEEN AC AND AB.

WRITE YOUR ANSWER ON YOUR DIAGRAM.



STEP 4 PICK ANOTHER POINT ON THE CIRCUMFERENCE AND CALL THIS POINT "D"

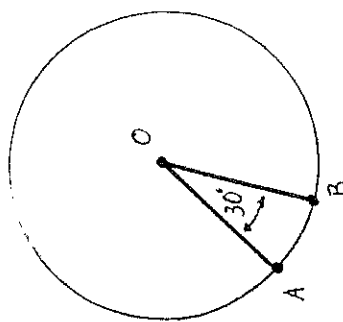
DRAW CHORDS DA AND DB AND MEASURE ANGLE ADB.

WRITE YOUR ANSWER ON YOUR DIAGRAM.

EXPERIMENT N° 2: ANGLE AOB = 30°

REPEAT EXPERIMENT N° 1 BUT

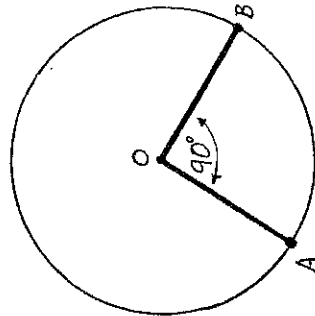
THIS TIME MAKE ANGLE AOB = 30°.



EXPERIMENT N° 3: ANGLE AOB = 90°

REPEAT EXPERIMENT N° 1 BUT

THIS TIME MAKE ANGLE ACB = 90°



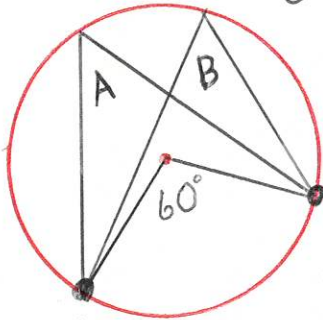
NOW MAKE A TABLE OF RESULTS.

ANGLE AOB	ANGLE ACB	ANGLE ADB
60°	---	---
30°	---	---
90°	---	---

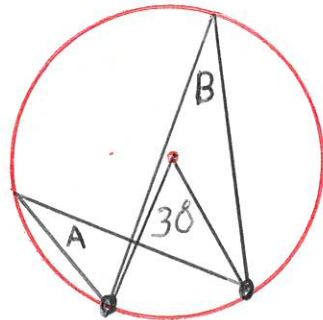
THE INVESTIGATION
RESULTS
AND
CONSEQUENCES

CIRCLE THEOREMS

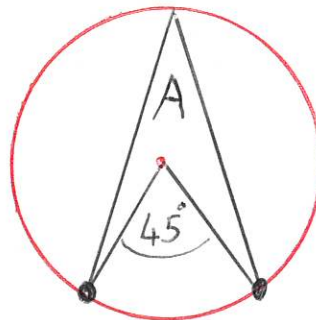
NAME _____



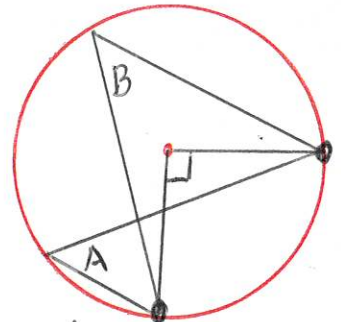
$A =$
 $B =$



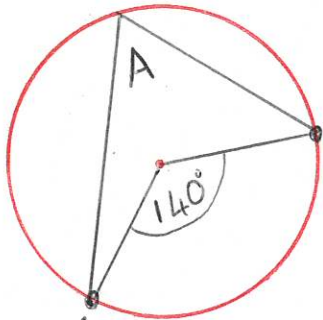
$A =$
 $B =$



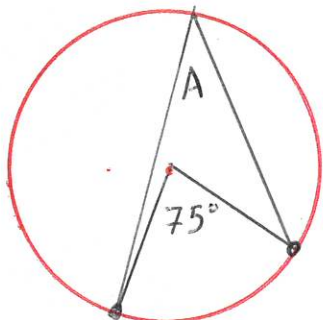
$A =$



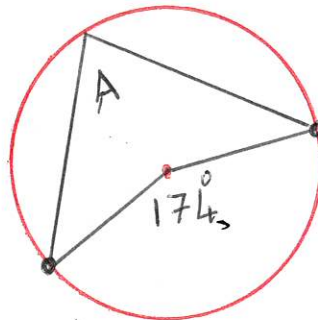
$A =$
 $B =$



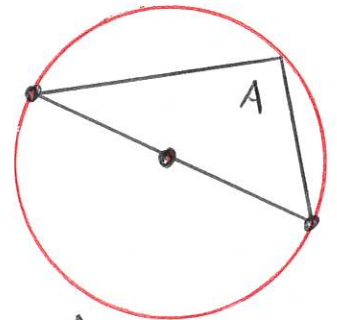
$A =$



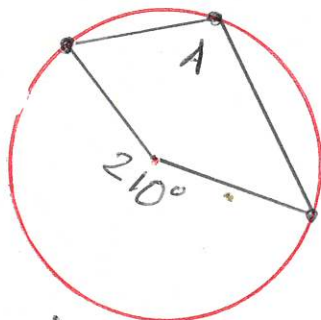
$A =$



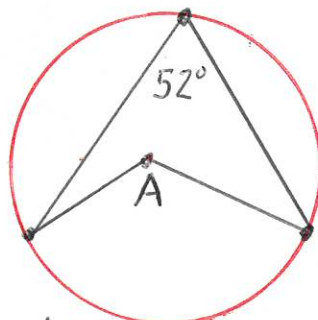
$A =$



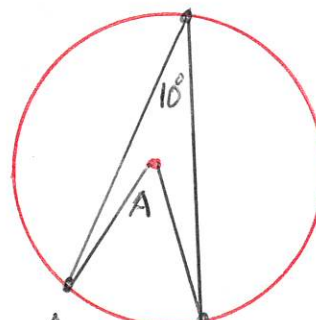
$A =$



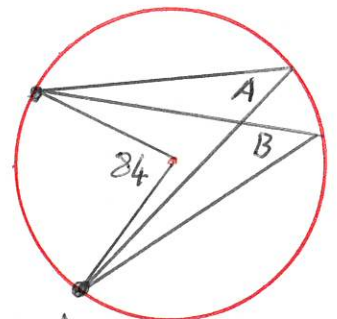
$A =$



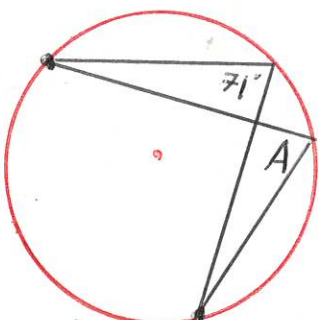
$A =$



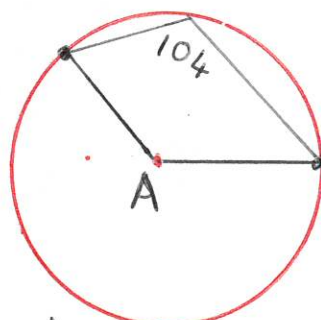
$A =$



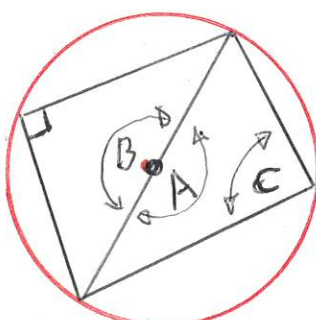
$A =$
 $B =$



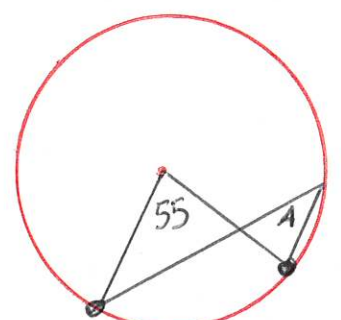
$A =$



$A =$



$A =$
 $B =$ $C =$



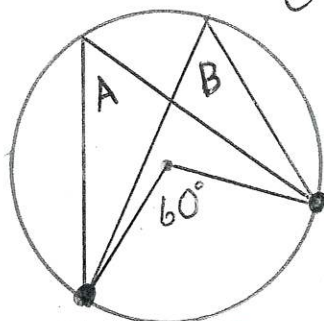
$A =$

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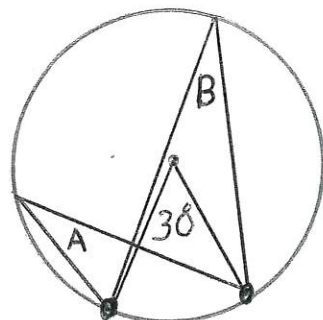
NAME

ANSWERS



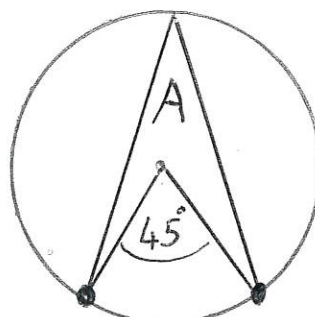
$$A = 30^\circ$$

$$B = 30^\circ$$

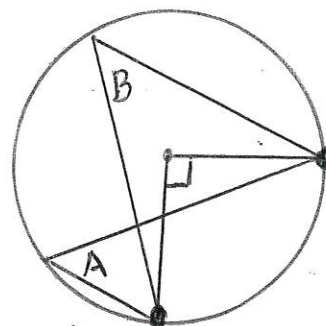


$$A = 15$$

$$B = 15$$

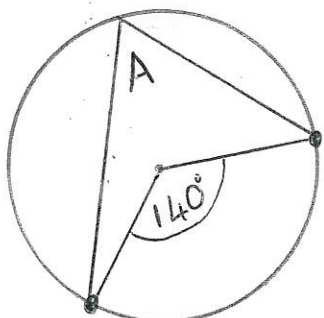


$$A = 22.5$$

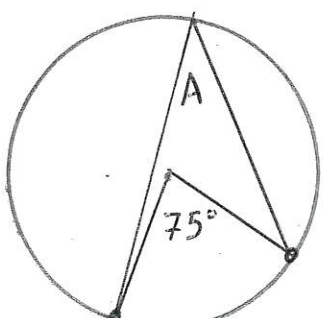


$$A = 45$$

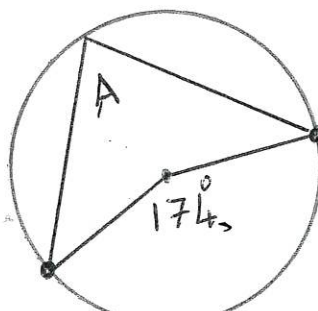
$$B = 45$$



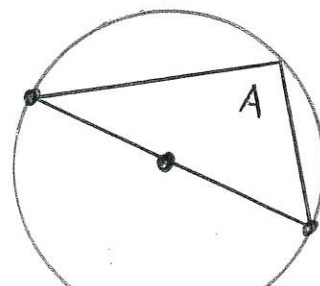
$$A = 70$$



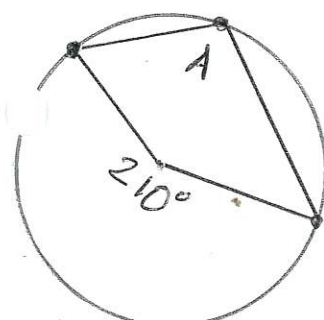
$$A = 37\frac{1}{2}$$



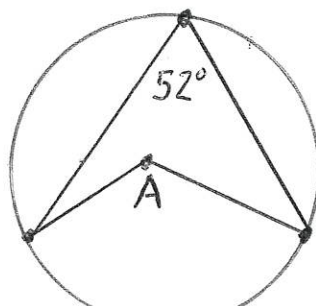
$$A = 87$$



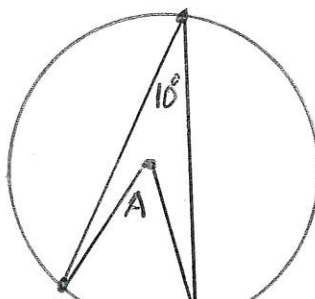
$$A = 90$$



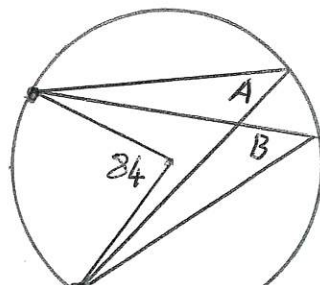
$$A = 105$$



$$A = 104$$

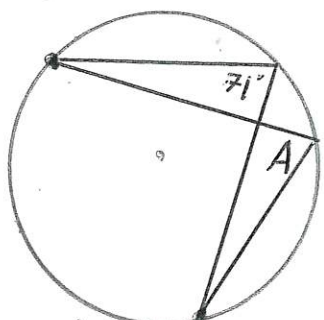


$$A = 20$$

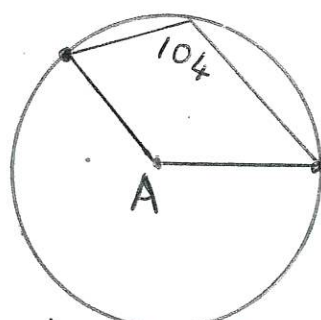


$$A = 42$$

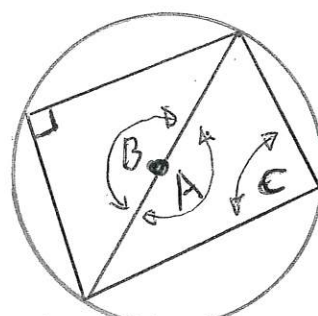
$$B = 42$$



$$A = 71$$

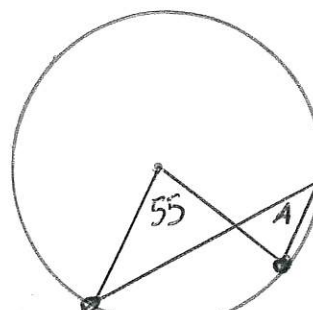


$$A = 208$$



$$A = 180$$

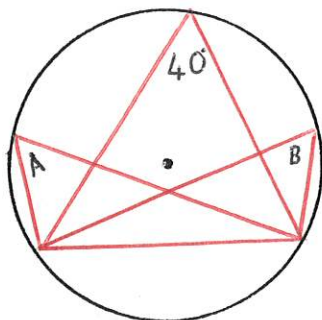
$$B = 180 \quad C = 90$$



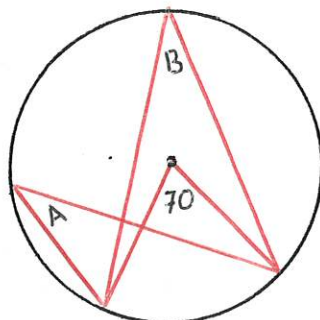
$$A = 27\frac{1}{2}$$

CIRCLE THEOREMS

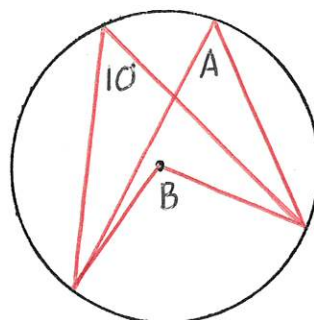
NAME _____



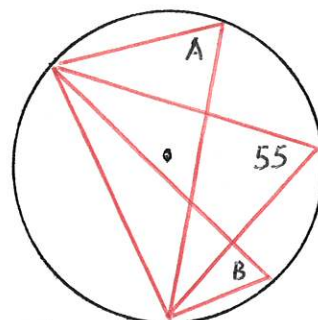
$$\begin{array}{l} A = \\ B = \end{array}$$



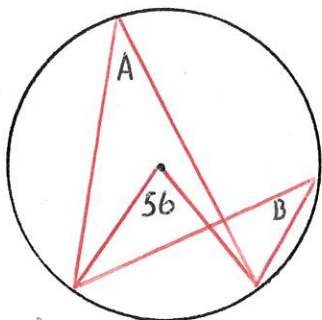
$$\begin{array}{l} A = \\ B = \end{array}$$



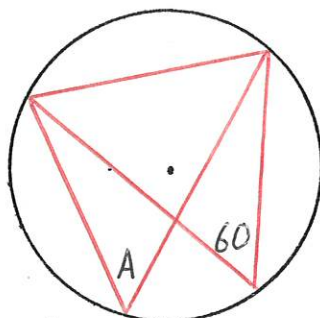
$$\begin{array}{l} A = \\ B = \end{array}$$



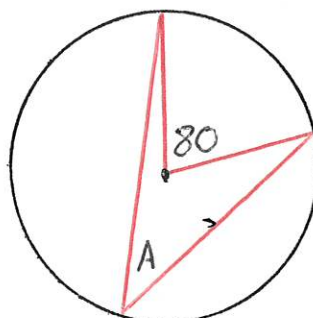
$$\begin{array}{l} A = \\ B = \end{array}$$



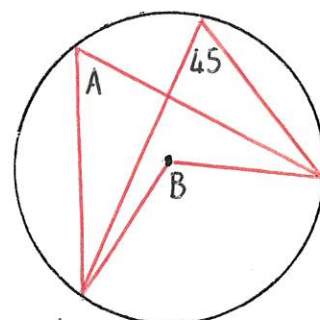
$$\begin{array}{l} A = \\ B = \end{array}$$



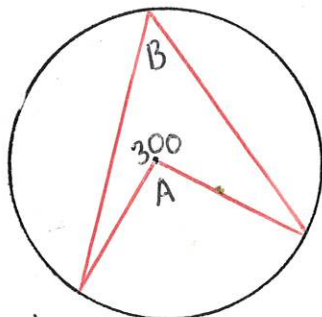
$$\begin{array}{l} A = \\ B = \end{array}$$



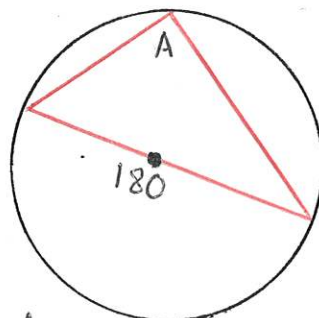
$$\begin{array}{l} A = \\ B = \end{array}$$



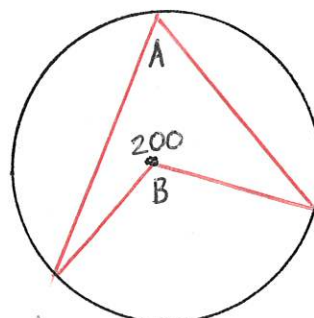
$$\begin{array}{l} A = \\ B = \end{array}$$



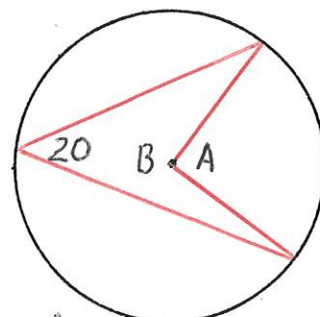
$$\begin{array}{l} A = \\ B = \end{array}$$



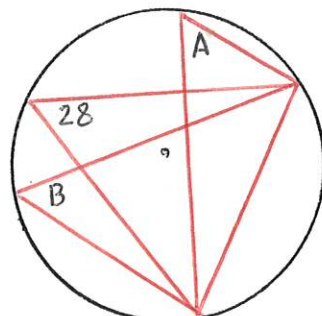
$$\begin{array}{l} A = \\ B = \end{array}$$



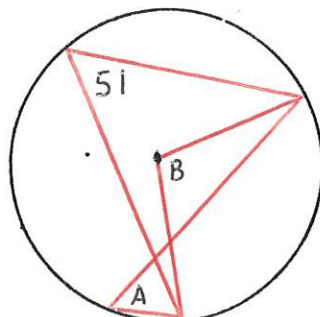
$$\begin{array}{l} A = \\ B = \end{array}$$



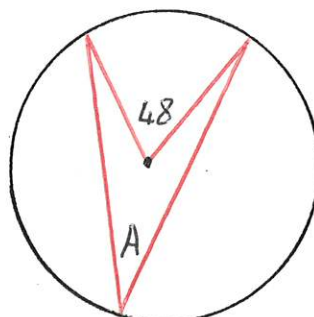
$$\begin{array}{l} A = \\ B = \end{array}$$



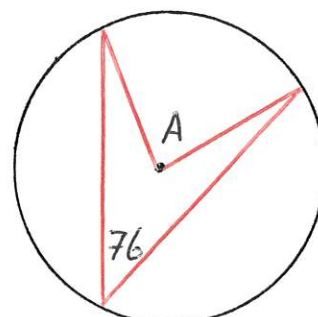
$$\begin{array}{l} A = \\ B = \end{array}$$



$$\begin{array}{l} A = \\ B = \end{array}$$



$$\begin{array}{l} A = \\ B = \end{array}$$



$$\begin{array}{l} A = \\ B = \end{array}$$

CIRCLE THEOREMS

12 SEP 1983

1st SHEET

NAME MR M HANSEN



$$A = 40^\circ$$

$$B = 40^\circ$$



$$A = 35^\circ$$

$$B = 35^\circ$$



$$A = 10^\circ$$

$$B = 20^\circ$$



$$A = 55^\circ$$

$$B = 55^\circ$$

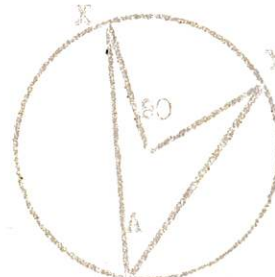


$$A = 27\frac{1}{2}^\circ$$

$$B = 27\frac{1}{2}^\circ$$



$$A = 60^\circ$$

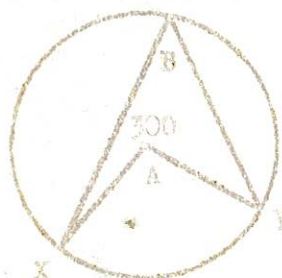


$$A = 40^\circ$$



$$A = 45^\circ$$

$$B = 90^\circ$$



$$A = 60^\circ$$

$$B = 30^\circ$$



$$A = 90^\circ$$



$$A = 160^\circ$$

$$B = 80^\circ$$



$$A = 40^\circ$$

$$B = 320^\circ$$



$$A = 28^\circ$$

$$B = 28^\circ$$



$$A = 51^\circ$$

$$B = 102^\circ$$



$$A = 24^\circ$$



$$A = 76^\circ$$

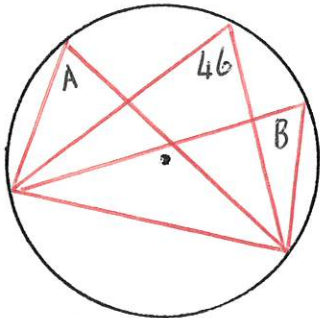
$$B = 152^\circ$$

CIRCLE THEOREMS

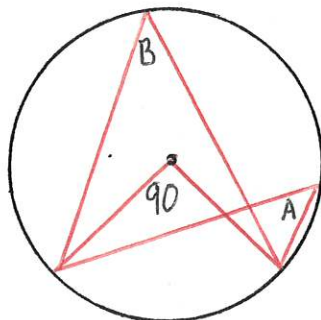
NAME _____

2

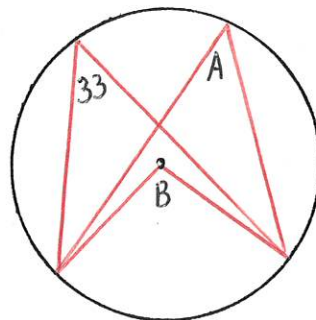
2



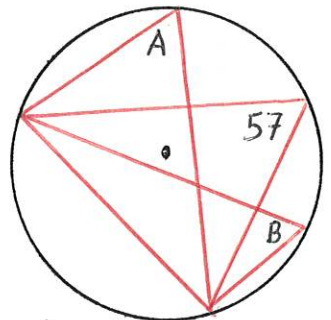
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



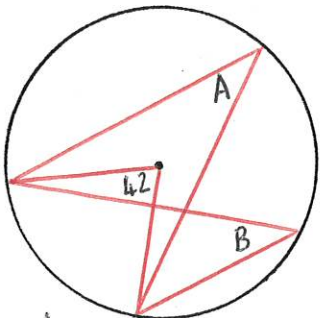
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



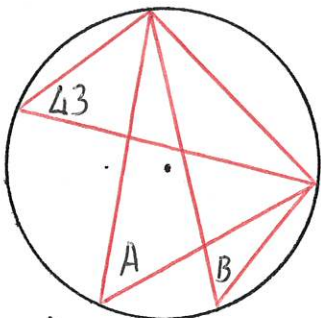
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



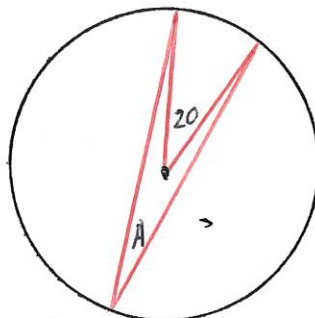
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



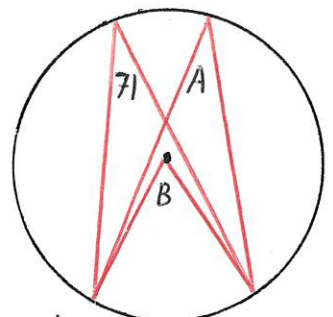
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



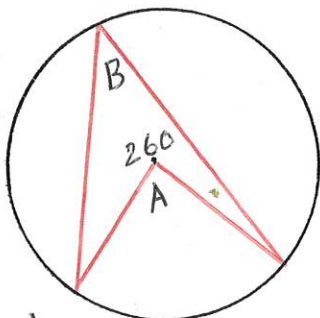
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



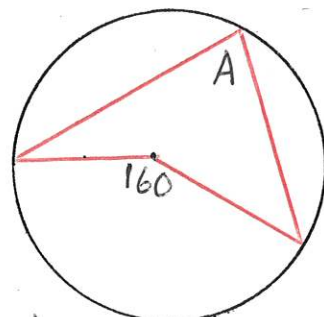
$$A =$$



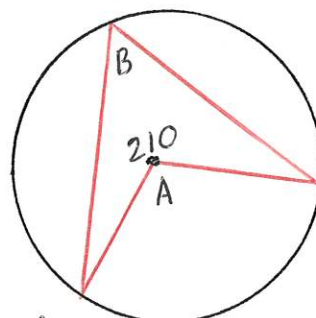
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



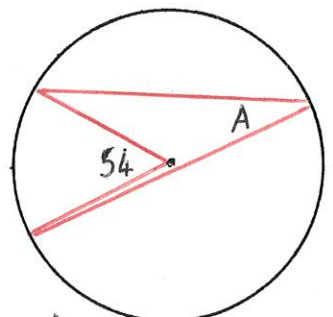
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



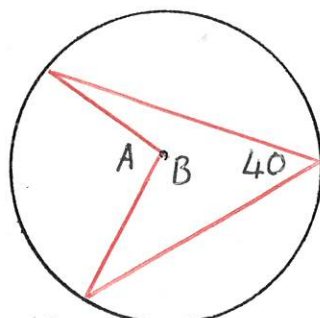
$$A =$$



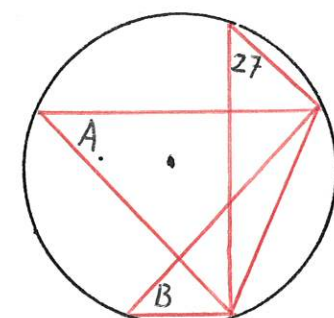
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



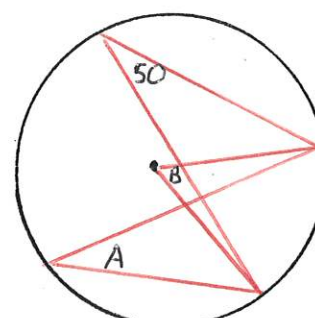
$$A =$$



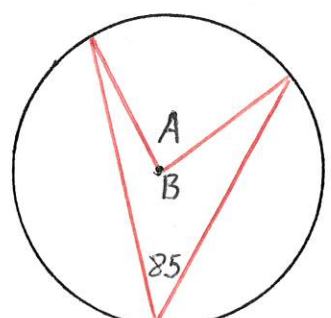
$$\begin{aligned} A &= \\ B &= \end{aligned}$$



$$\begin{aligned} A &= \\ B &= \end{aligned}$$



$$\begin{aligned} A &= \\ B &= \end{aligned}$$



$$\begin{aligned} A &= \\ B &= \end{aligned}$$

CIRCLE THEOREMS

SHEET 2

12 SEP 1983



$$A = 46$$

$$B = 46$$



$$A = 45$$

$$B = 45$$



$$A = 33$$

$$B = 66$$



$$A = 57$$

$$B = 57$$



$$A = 21$$

$$B = 21$$



$$A = 43$$

$$B = 43$$



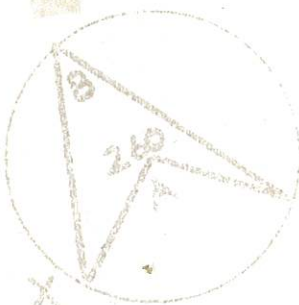
$$A = 10$$

$$B = 10$$



$$A = 71$$

$$B = 142$$



$$A = 100$$

$$B = 50$$



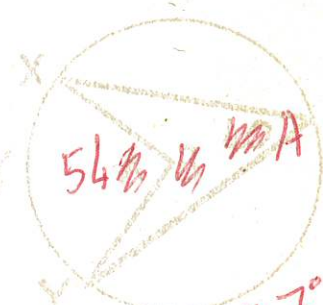
$$A = 80$$

$$B = 80$$



$$A = 150$$

$$B = 75$$



$$A = 54$$

$$B = 108$$



$$A = 49$$

$$B = 49$$



$$A = 27$$

$$B = 134$$



$$A = 50$$

$$B = 100$$



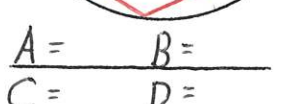
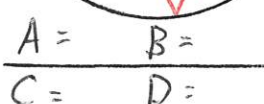
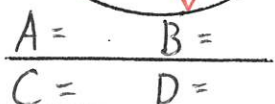
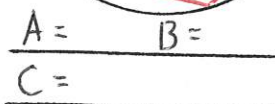
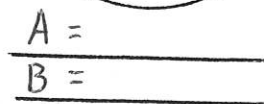
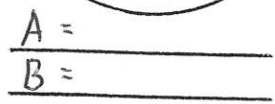
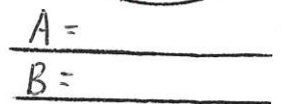
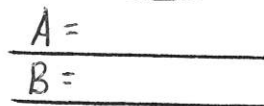
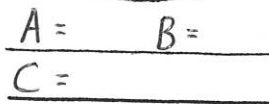
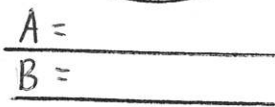
$$A = 85$$

$$B = 170$$

NAME

3

3



CIRCLE THEOREMS

SHEET 3



$$A = 250$$

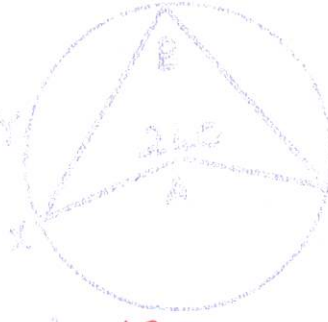
$$B = 55$$



$$A = 220$$

$$B = 70$$

$$C = 70$$



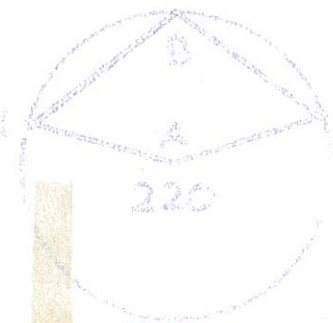
$$A = 120$$

$$B = 60$$



$$A = 50$$

$$B = 25$$



$$A = 140$$

$$B = 110$$



$$A = 190$$

$$B = 95$$



$$A = 80$$

$$B = 40$$



$$A = 330$$

$$B = 15$$



$$A = 250$$

$$B = 55$$

$$C = 125$$



$$A = 40$$

$$B = 20$$

$$C = 160$$



$$A = 100$$

$$B = 260$$

$$C = 130$$



$$A = 120$$

$$B = 240$$

$$C = 120$$



$$A = 230$$

$$B = 65$$

$$C = 65$$

$$D = 115$$



$$A = 200$$

$$B = 80$$

$$C = 80$$

$$D = 100$$



$$A = 200$$

$$B = 160$$

$$C = 80$$

$$D = 80$$



$$A = 240$$

$$B = 120$$

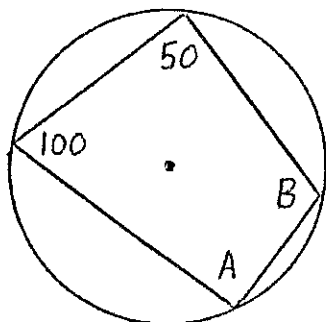
$$C = 60$$

$$D = 60$$

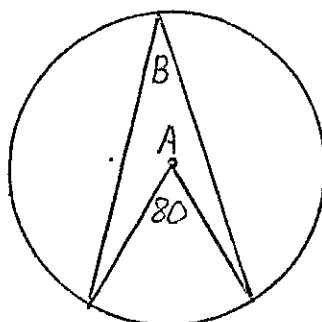
NAME

4

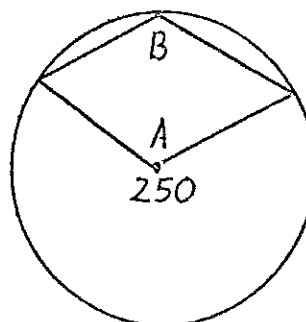
4



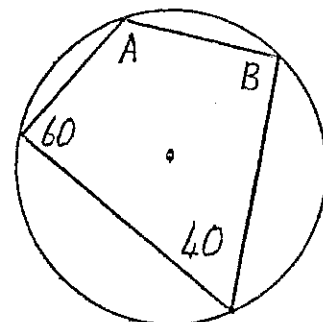
A =
B =



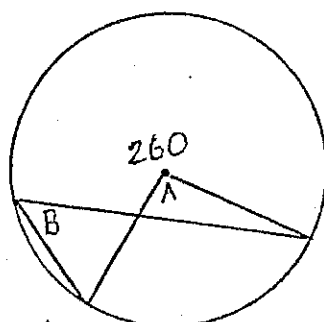
A =
B =



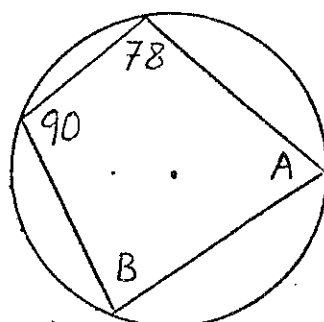
A =
B =



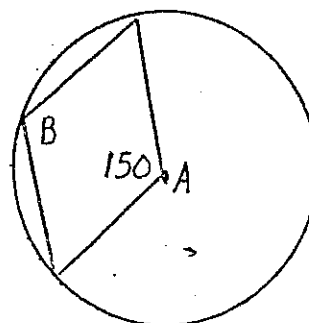
$$\frac{A}{B} =$$



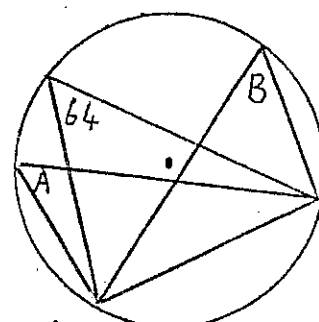
$$\frac{A}{B} =$$



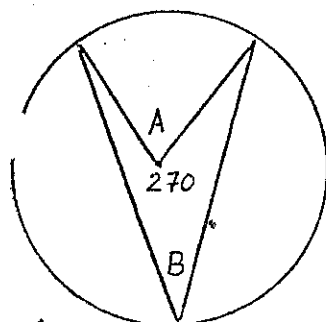
A = _____
B = _____



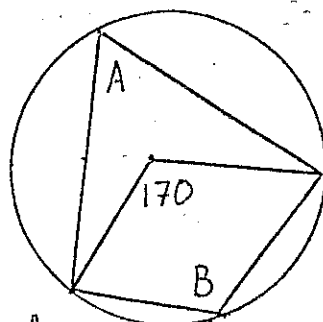
$$\frac{A}{B} =$$



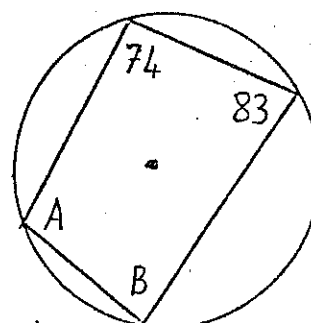
A =
B =



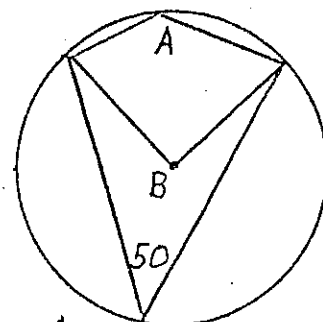
A = _____
B = _____



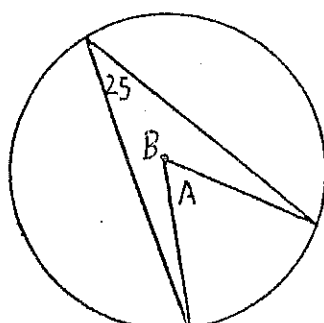
A = _____
B = _____



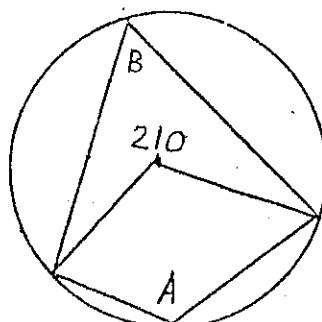
$A =$
 $B =$



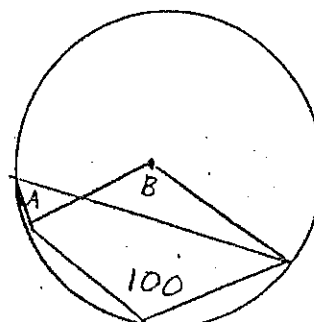
$$\frac{A}{B} =$$



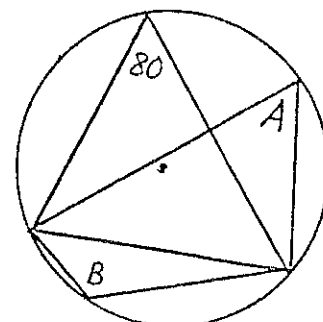
A = _____
B = _____



$$\frac{A}{B} =$$



$$\frac{A =}{B =}$$



$$\frac{A}{B} =$$

CIRCLE THEOREMS

03 OCT 1983



$$\begin{aligned} A &= 130 \\ B &= 80 \end{aligned}$$



$$\begin{aligned} A &= 280 \\ B &= 40 \end{aligned}$$



$$\begin{aligned} A &= 110 \\ B &= 125 \end{aligned}$$



$$\begin{aligned} A &= 140 \\ B &= 120 \end{aligned}$$



$$\begin{aligned} A &= 100 \\ B &= 50 \end{aligned}$$



$$\begin{aligned} A &= 90 \\ B &= 102 \end{aligned}$$



$$\begin{aligned} A &= 210 \\ B &= 105 \end{aligned}$$



$$\begin{aligned} A &= 64 \\ B &= 64 \end{aligned}$$



$$\begin{aligned} A &= 90 \\ B &= 45 \end{aligned}$$



$$\begin{aligned} A &= 85 \\ B &= 95 \end{aligned}$$



$$\begin{aligned} A &= 106 \\ B &= 97 \end{aligned}$$



$$\begin{aligned} A &= 130 \\ B &= 260 \end{aligned}$$



$$\begin{aligned} A &= 50 \\ B &= 310 \end{aligned}$$



$$\begin{aligned} A &= 105 \\ B &= 75 \end{aligned}$$



$$\begin{aligned} A &= 80 \\ B &= 160 \end{aligned}$$



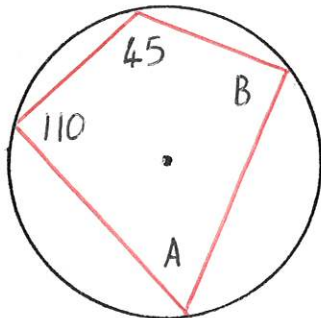
$$\begin{aligned} A &= 80 \\ B &= 100 \end{aligned}$$

CIRCLE THEOREMS

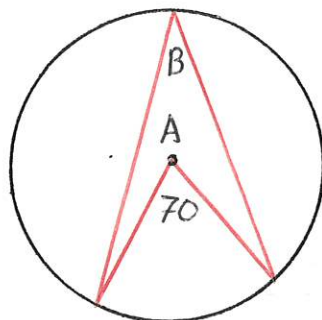
NAME _____

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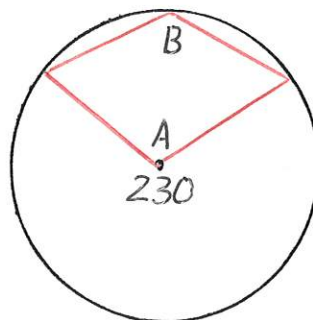
5



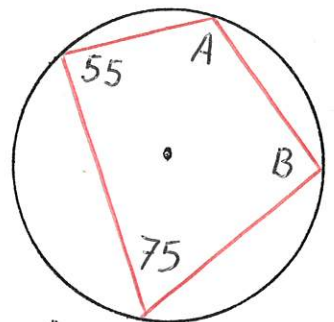
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



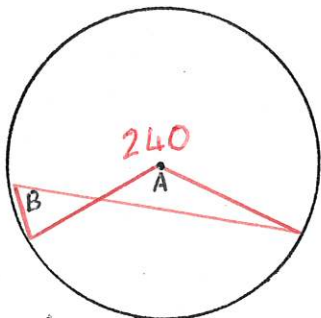
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



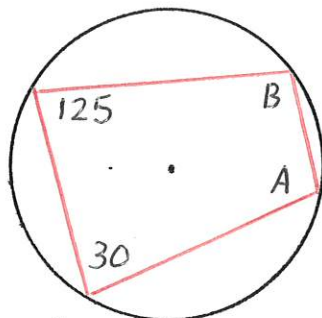
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



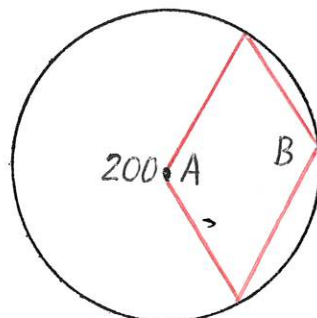
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



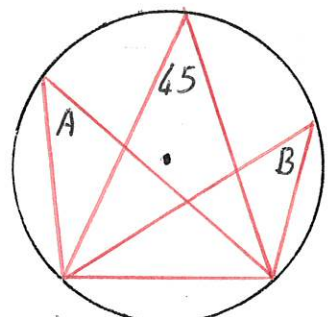
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



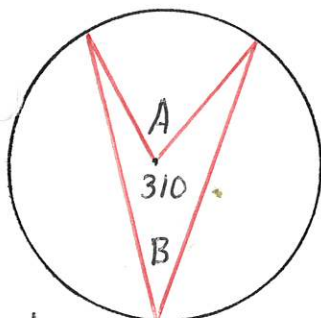
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



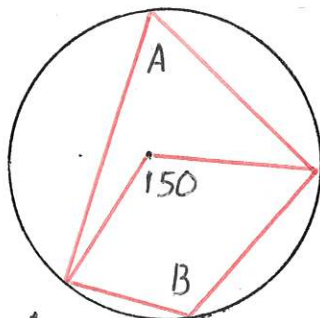
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



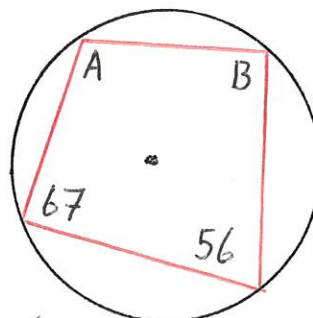
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



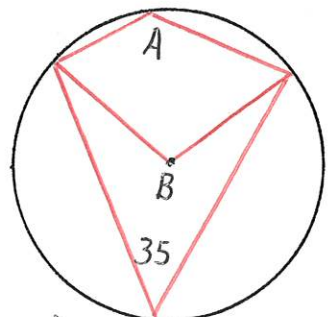
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



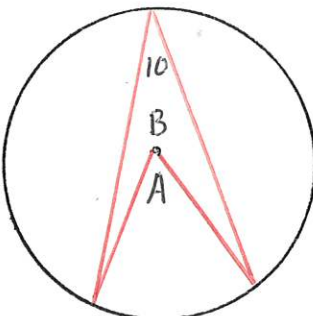
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



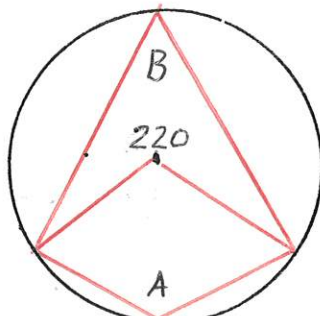
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



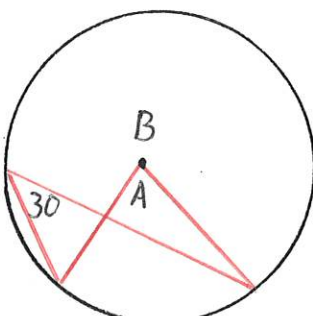
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



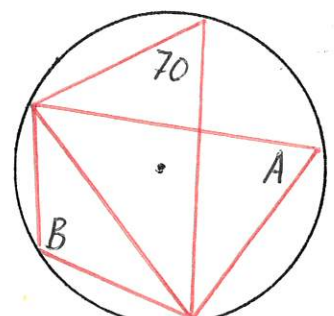
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



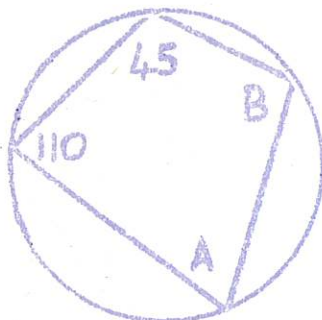
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



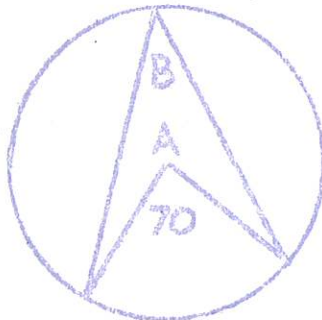
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

CIRCLE THEOREMS SHEET 5

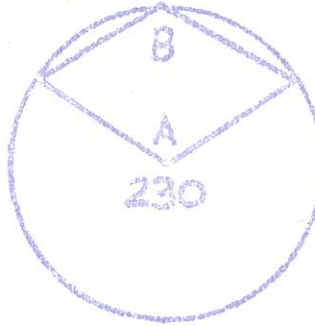
03 OCT 1983



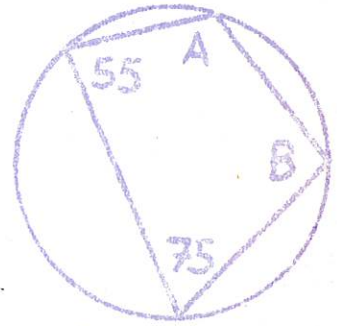
$$\begin{aligned} A &= 135 \\ B &= 70 \end{aligned}$$



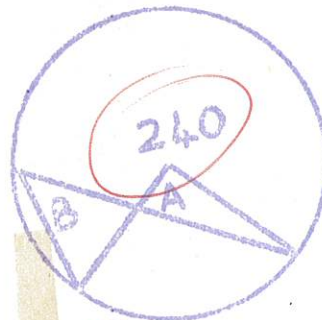
$$\begin{aligned} A &= 290 \\ B &= 35 \end{aligned}$$



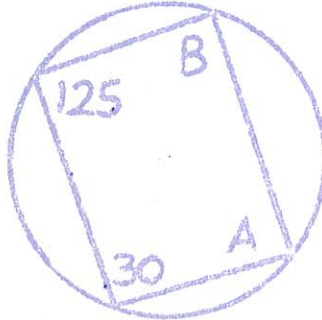
$$\begin{aligned} A &= 130 \\ B &= 115 \end{aligned}$$



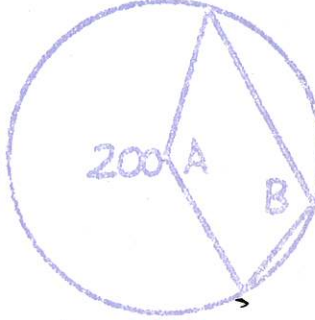
$$\begin{aligned} A &= 105 \\ B &= 125 \end{aligned}$$



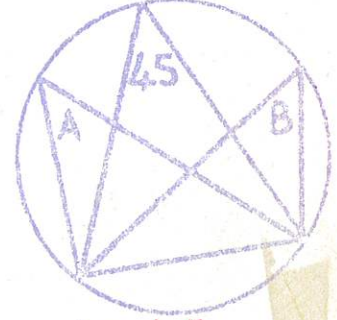
$$\begin{aligned} A &= 120 \\ B &= 60 \end{aligned}$$



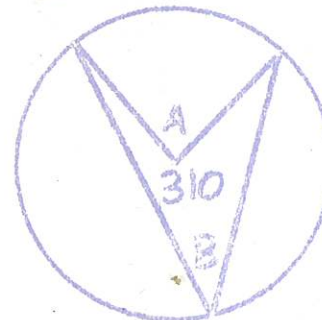
$$\begin{aligned} A &= 55 \\ B &= 150 \end{aligned}$$



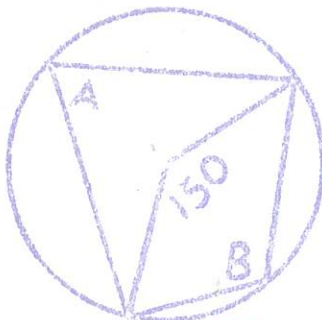
$$\begin{aligned} A &= 160 \\ B &= 100 \end{aligned}$$



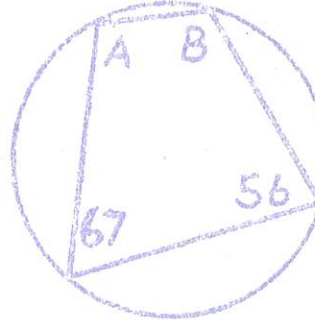
$$\begin{aligned} A &= 45 \\ B &= 45 \end{aligned}$$



$$\begin{aligned} A &= 50 \\ B &= 25 \end{aligned}$$



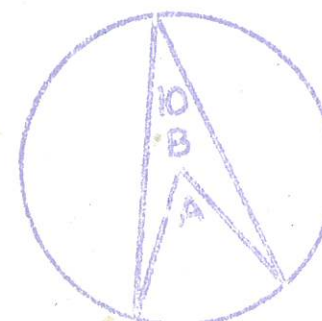
$$\begin{aligned} A &= 125, 75 \\ B &= 105 \end{aligned}$$



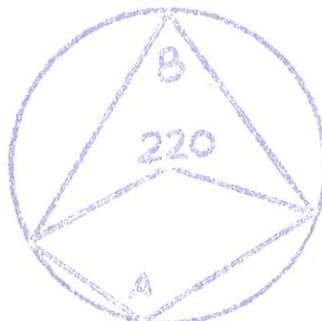
$$\begin{aligned} A &= 124 \\ B &= 113 \end{aligned}$$



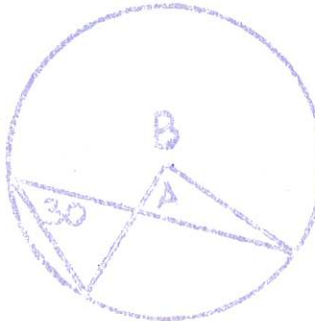
$$\begin{aligned} A &= 145 \\ B &= 290 \end{aligned}$$



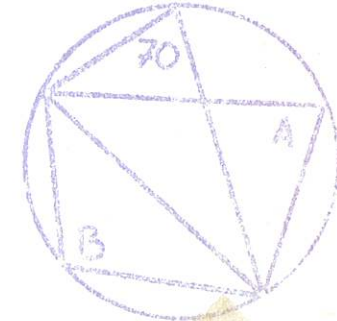
$$\begin{aligned} A &= 20 \\ B &= 340 \end{aligned}$$



$$\begin{aligned} A &= 110 \\ B &= 70 \end{aligned}$$



$$\begin{aligned} A &= 60 \\ B &= 300 \end{aligned}$$



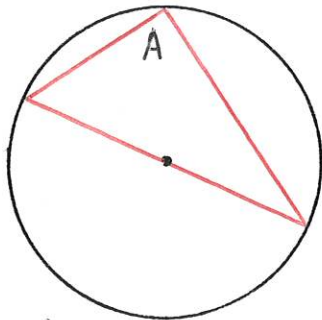
$$\begin{aligned} A &= 70 \\ B &= 110 \end{aligned}$$

CIRCLE THEOREMS

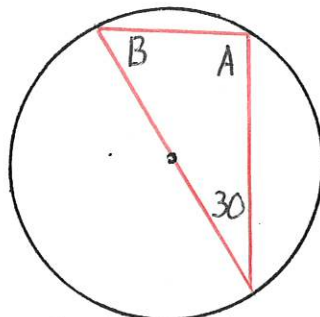
NAME _____

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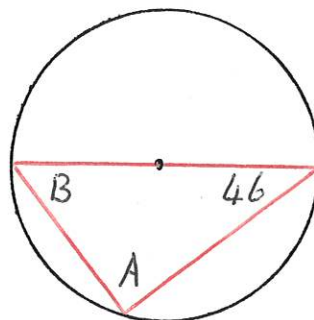
6



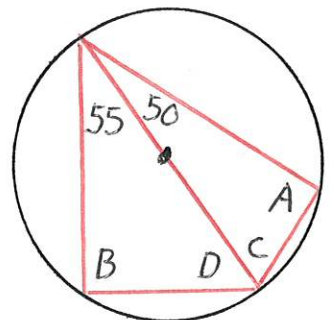
$A =$ _____



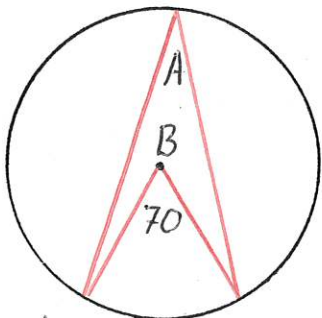
$A =$ _____
 $B =$ _____



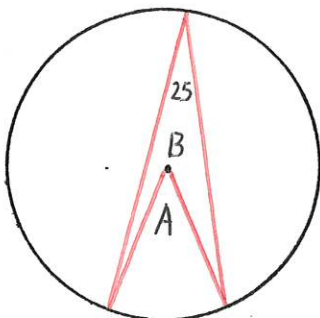
$A =$ _____
 $B =$ _____



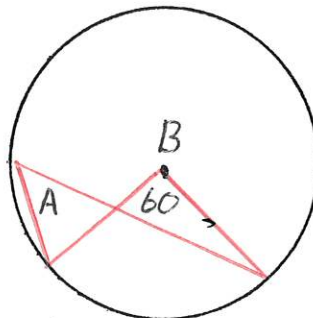
$A =$ _____ $B =$ _____
 $C =$ _____ $D =$ _____



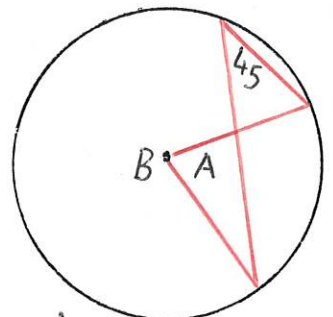
$A =$ _____
 $B =$ _____



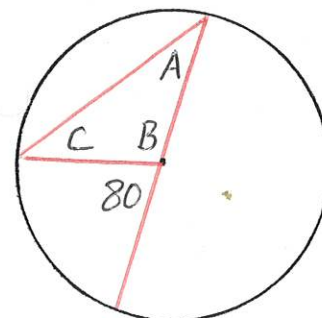
$A =$ _____
 $B =$ _____



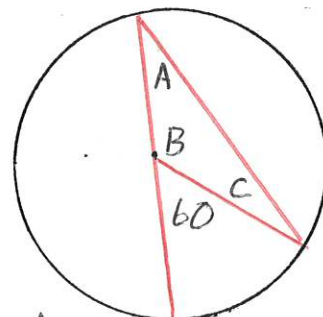
$A =$ _____
 $B =$ _____



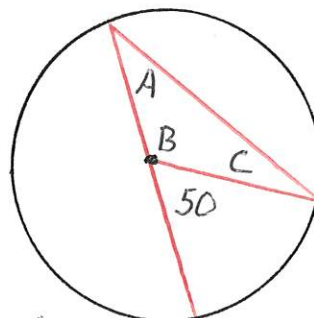
$A =$ _____
 $B =$ _____



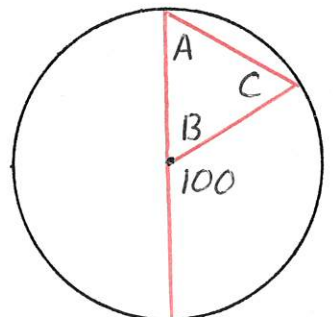
$A =$ _____
 $B =$ _____ $C =$ _____



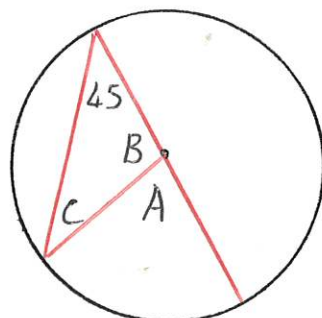
$A =$ _____
 $B =$ _____ $C =$ _____



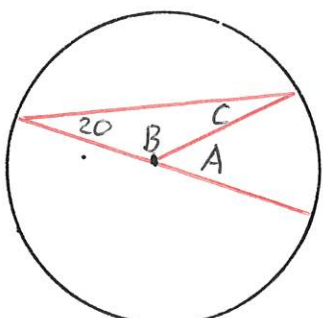
$A =$ _____
 $B =$ _____ $C =$ _____



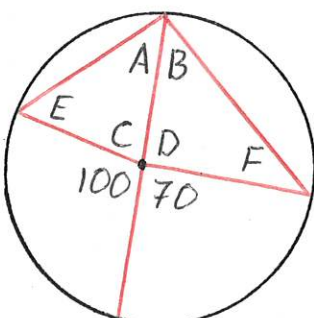
$A =$ _____
 $B =$ _____ $C =$ _____



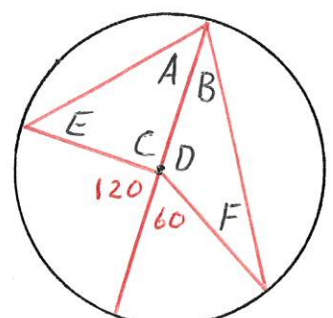
$A =$ _____
 $B =$ _____ $C =$ _____



$A =$ _____
 $B =$ _____ $C =$ _____



$A =$ _____ $B =$ _____ $C =$ _____
 $D =$ _____ $E =$ _____ $F =$ _____



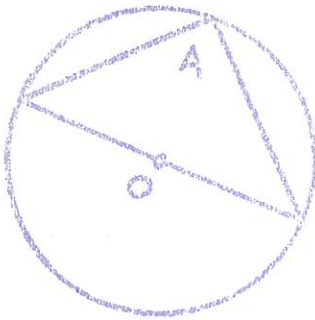
$A =$ _____ $B =$ _____ $C =$ _____
 $D =$ _____ $E =$ _____ $F =$ _____

CIRCLE THEOREMS

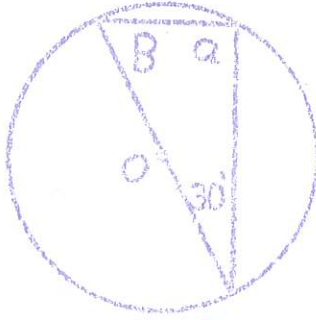
SHEET 6

03 OCT 1983

HAN 5A6

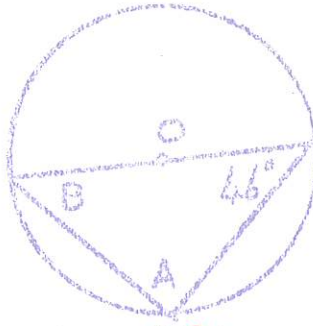


$$A = 90^\circ$$



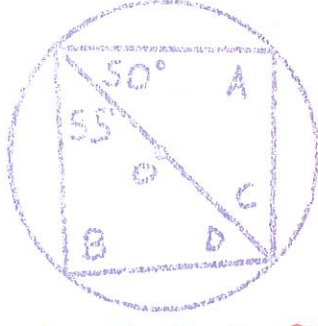
$$A = 90^\circ$$

$$B = 60^\circ$$



$$A = 90^\circ$$

$$B = 44^\circ$$



$$A = 90^\circ$$

$$B = 90^\circ$$

$$C = 40^\circ$$

$$D = 35^\circ$$



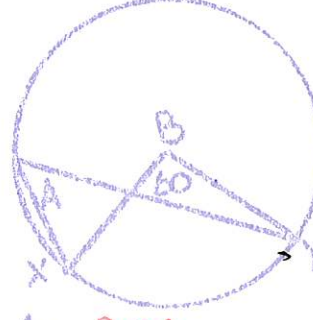
$$A = 35^\circ$$

$$B = 290^\circ$$



$$A = 50^\circ$$

$$B = 310^\circ$$



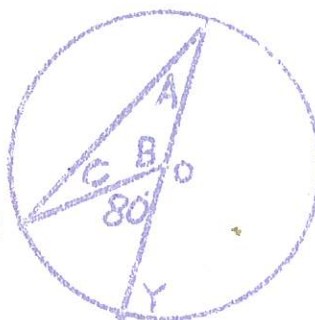
$$A = 30^\circ$$

$$B = 300^\circ$$



$$A = 90^\circ$$

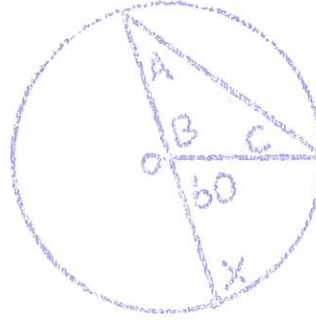
$$B = 270^\circ$$



$$A = 40^\circ$$

$$B = 100^\circ$$

$$C = 40^\circ$$



$$A = 30^\circ$$

$$B = 120^\circ$$

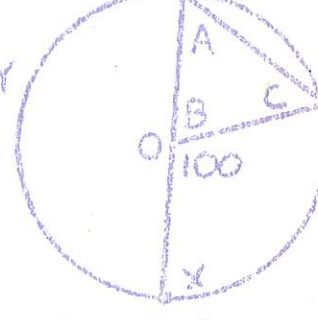
$$C = 30^\circ$$



$$A = 25^\circ$$

$$B = 130^\circ$$

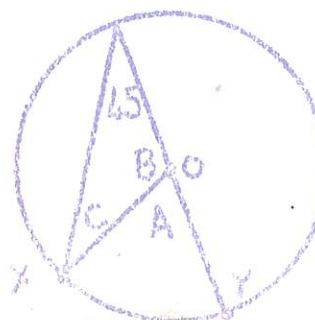
$$C = 25^\circ$$



$$A = 50^\circ$$

$$B = 80^\circ$$

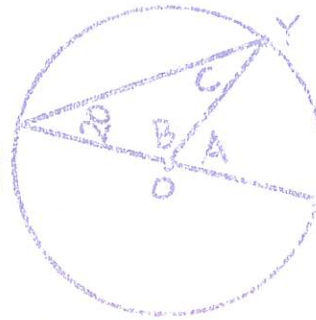
$$C = 50^\circ$$



$$A = 90^\circ$$

$$B = 90^\circ$$

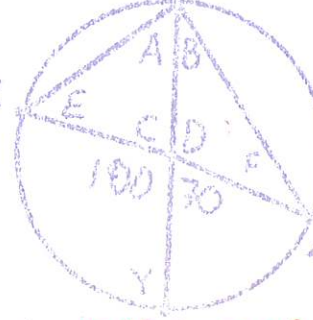
$$C = 45^\circ$$



$$A = 40^\circ$$

$$B = 140^\circ$$

$$C = 20^\circ$$



$$A = 50^\circ$$

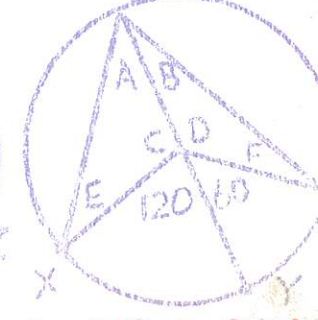
$$B = 35^\circ$$

$$C = 80^\circ$$

$$D = 110^\circ$$

$$E = 50^\circ$$

$$F = 35^\circ$$



$$A = 60^\circ$$

$$B = 30^\circ$$

$$C = 60^\circ$$

$$D = 120^\circ$$

$$E = 60^\circ$$

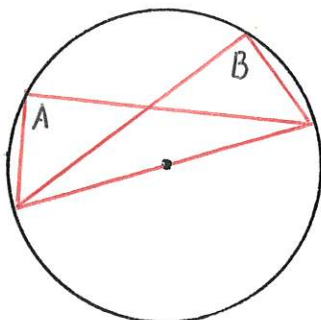
$$F = 30^\circ$$

CIRCLE THEOREMS

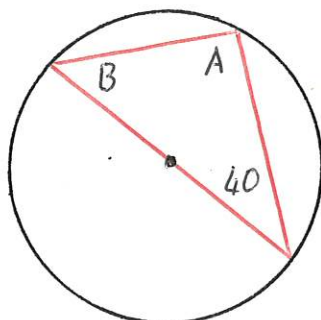
NAME _____

7

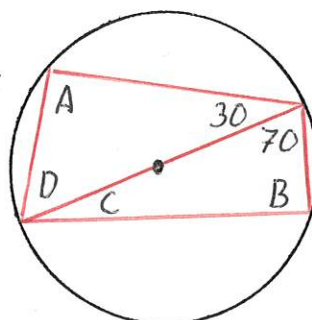
7



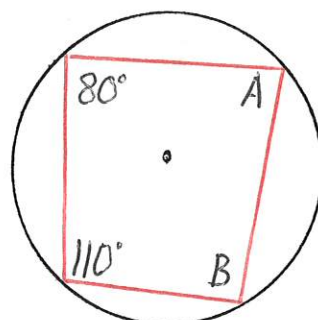
$$\begin{array}{l} A = \\ B = \end{array}$$



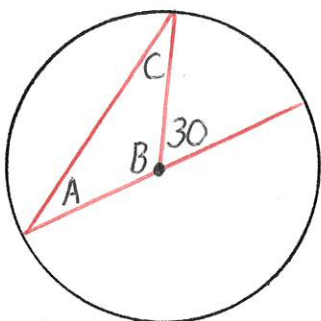
$$\begin{array}{l} A = \\ B = \end{array}$$



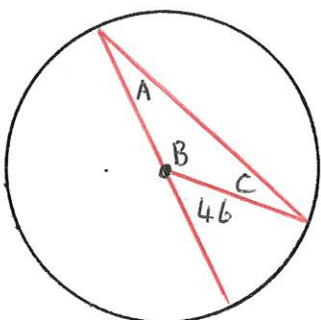
$$\begin{array}{l} A = B = \\ C = D = \end{array}$$



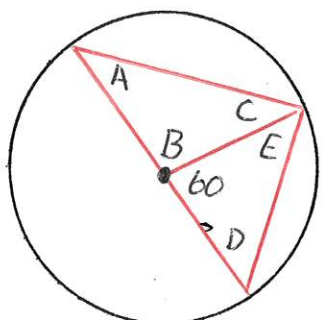
$$\begin{array}{l} A = \\ B = \end{array}$$



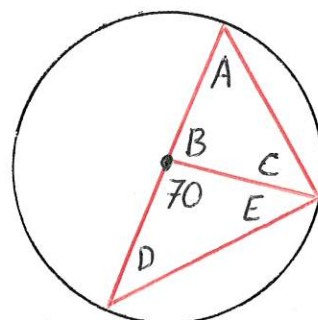
$$\begin{array}{l} A = \\ B = C = \end{array}$$



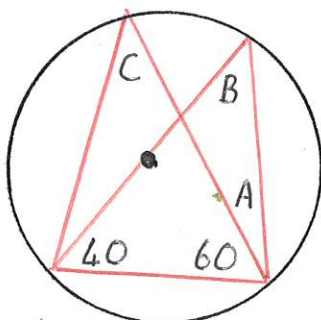
$$\begin{array}{l} A = \\ B = C = \end{array}$$



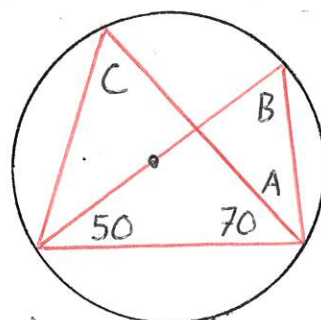
$$\begin{array}{l} A = B = C = \\ D = E = \end{array}$$



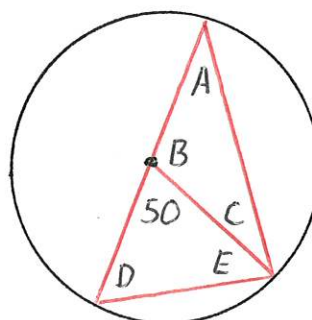
$$\begin{array}{l} A = B = C = \\ D = E = \end{array}$$



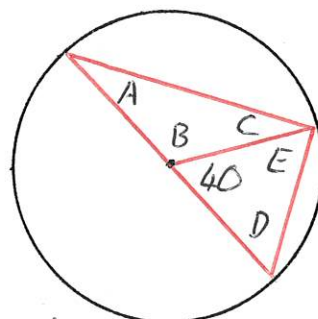
$$\begin{array}{l} A = \\ B = C = \end{array}$$



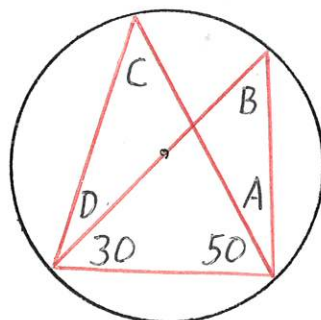
$$\begin{array}{l} A = \\ B = C = \end{array}$$



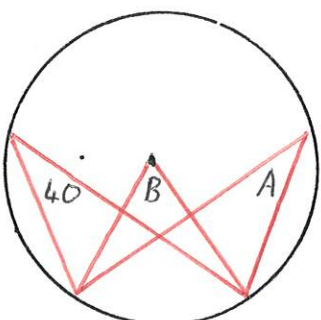
$$\begin{array}{l} A = B = C = \\ D = E = \end{array}$$



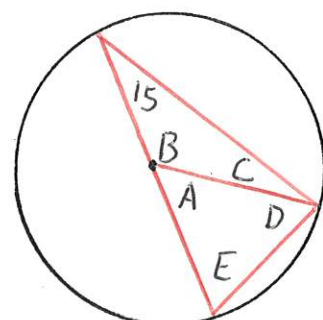
$$\begin{array}{l} A = B = C = \\ D = E = \end{array}$$



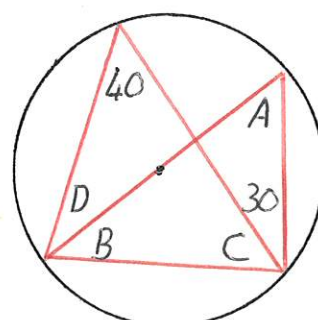
$$\begin{array}{l} A = B = \\ C = D = \end{array}$$



$$\begin{array}{l} A = B = \\ C = \end{array}$$



$$\begin{array}{l} A = B = C = \\ D = E = \end{array}$$



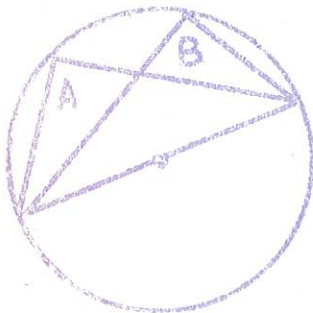
$$\begin{array}{l} A = B = \\ C = D = \end{array}$$

CIRCLE THEOREMS

SHEET 7

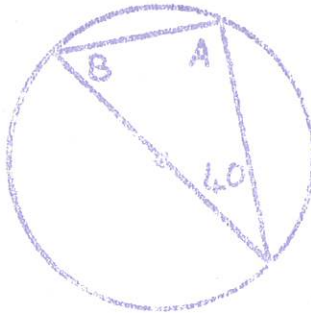
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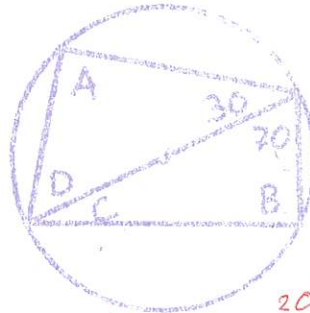
$$A = 90^\circ$$

$$B = 90^\circ$$



$$A = 90^\circ$$

$$B = 50^\circ$$

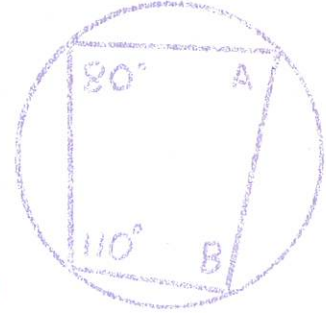


$$A = 90^\circ$$

$$C = 30^\circ$$

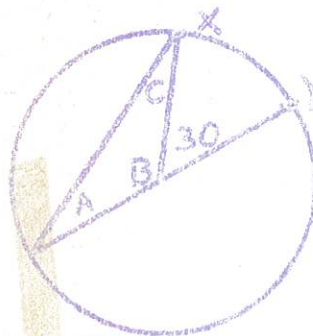
$$B = 90^\circ$$

$$D = 60^\circ$$



$$A = 70^\circ$$

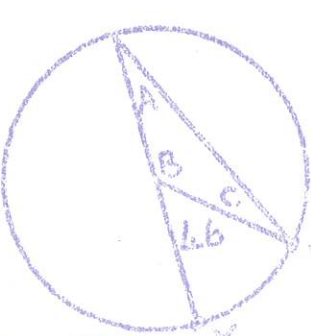
$$B = 100^\circ$$



$$A = 15^\circ$$

$$B = 150^\circ$$

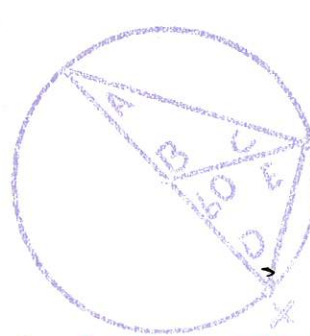
$$C = 15^\circ$$



$$A = 23^\circ$$

$$B = 134^\circ$$

$$C = 23^\circ$$



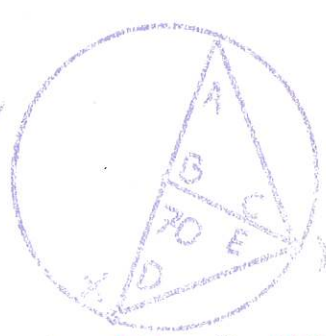
$$A = 30^\circ$$

$$B = 120^\circ$$

$$C = 30^\circ$$

$$D = 60^\circ$$

$$E = 60^\circ$$



$$A = 35^\circ$$

$$B = 110^\circ$$

$$C = 35^\circ$$

$$D = 55^\circ$$

$$E = 55^\circ$$



$$A = 30^\circ$$

$$B = 50^\circ$$

$$C = 50^\circ$$



$$A = 130^\circ$$

$$B = 20^\circ$$

$$C = 40^\circ$$

$$D = 40^\circ$$



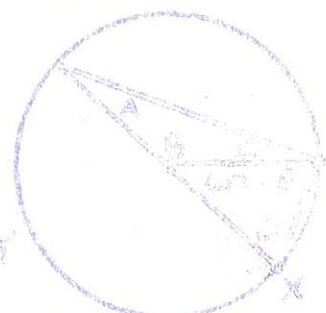
$$A = 25^\circ$$

$$B = 130^\circ$$

$$C = 25^\circ$$

$$D = 65^\circ$$

$$E = 65^\circ$$



$$A = 20^\circ$$

$$B = 140^\circ$$

$$C = 20^\circ$$

$$D = 70^\circ$$

$$E = 70^\circ$$



$$A = 40^\circ$$

$$B = 60^\circ$$

$$C = 60^\circ$$

$$D = 40^\circ$$



$$A = 40^\circ$$

$$B = 80^\circ$$

$$C = 280^\circ$$



$$A = 30^\circ$$

$$B = 150^\circ$$

$$C = 15^\circ$$

$$D = 75^\circ$$

$$E = 75^\circ$$



$$A = 40^\circ$$

$$B = 50^\circ$$

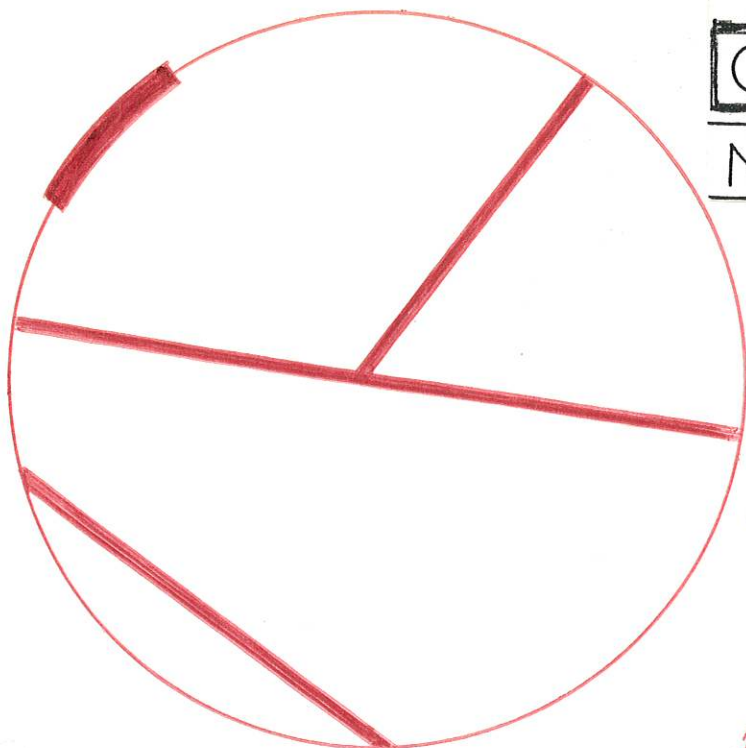
$$C = 60^\circ$$

$$D = 30^\circ$$

CIRCLE THEOREMS

NAME _____

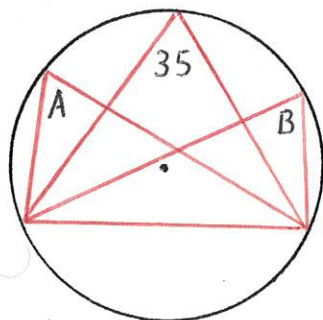
T E S T



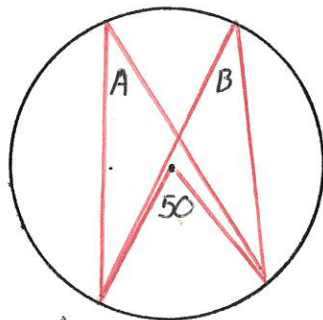
On the diagram shown left
mark on the following....

1. THE DIAMETER
2. THE RADIUS
3. THE ARC
4. THE CHORD

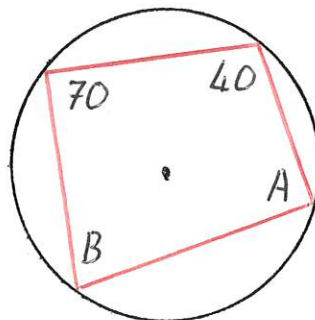
BASIC THEOREMS FIND ANGLES A AND B



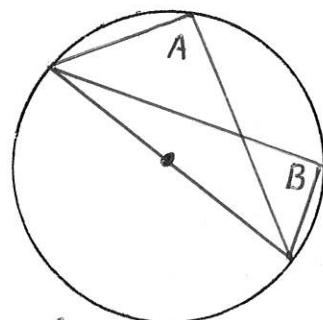
A = _____
B = _____



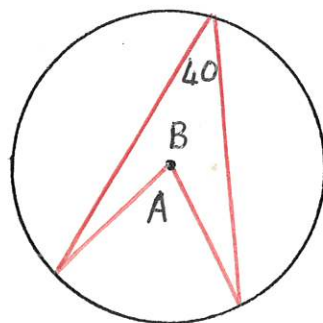
A = _____
B = _____



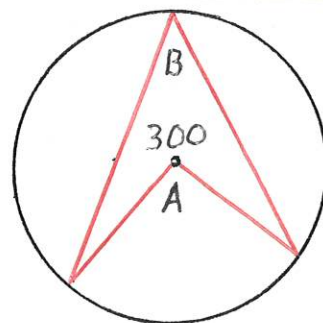
A = _____
B = _____



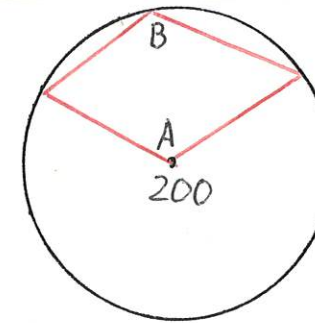
A = _____
B = _____



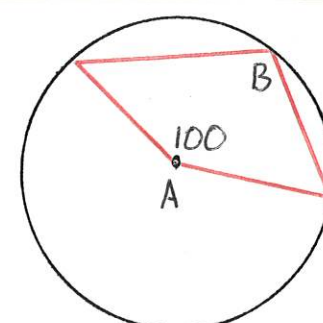
A = _____
B = _____



A = _____
B = _____

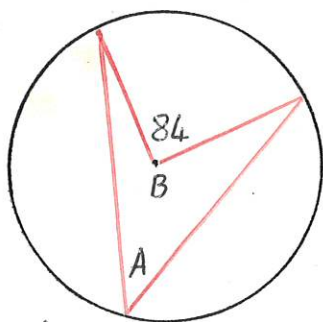


A = _____
B = _____

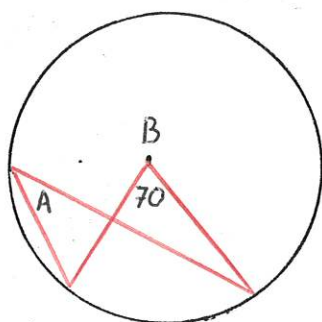


A = _____
B = _____

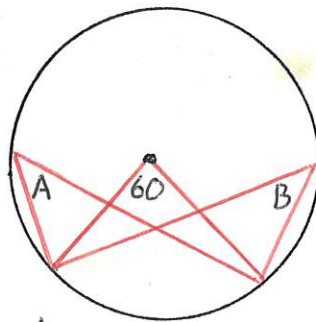
BASIC THEOREM PROBLEMS



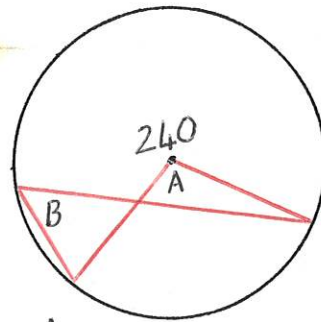
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

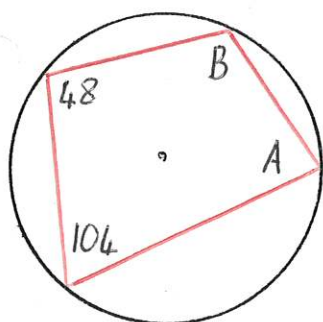


$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

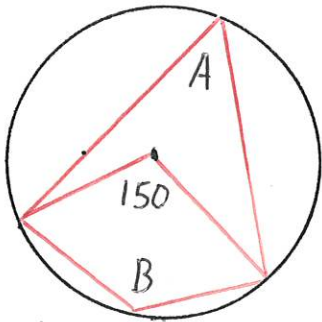


$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

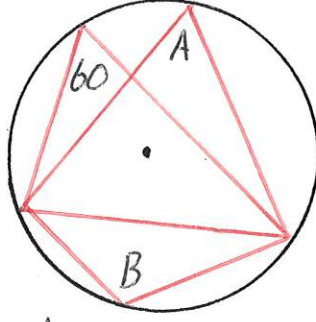
CYCLIC QUADRILATERAL PROBLEMS



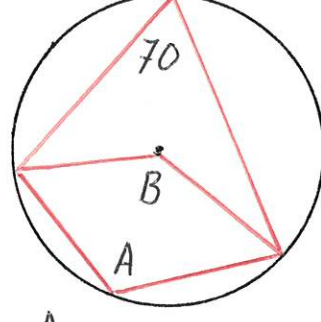
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

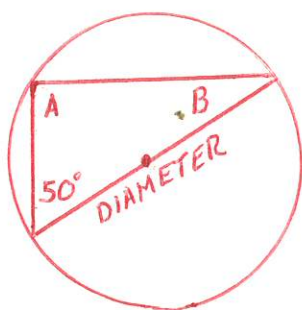


$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

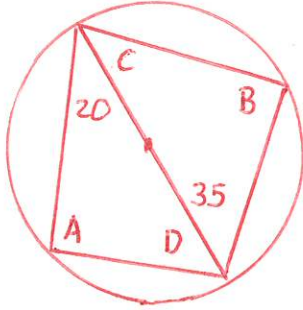


$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$

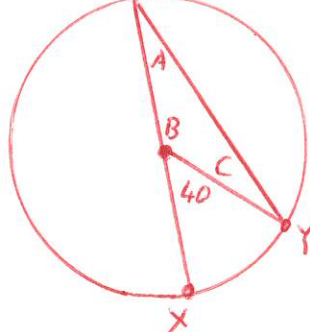
PROBLEMS WITH A DIAMETER



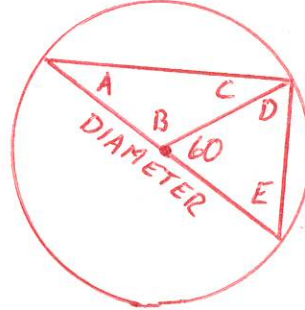
$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \\ C = \underline{\hspace{2cm}} \\ D = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \\ C = \underline{\hspace{2cm}} \end{array}$$



$$\begin{array}{l} A = \underline{\hspace{2cm}} \\ B = \underline{\hspace{2cm}} \\ C = \underline{\hspace{2cm}} \\ D = \underline{\hspace{2cm}} \\ E = \underline{\hspace{2cm}} \end{array}$$

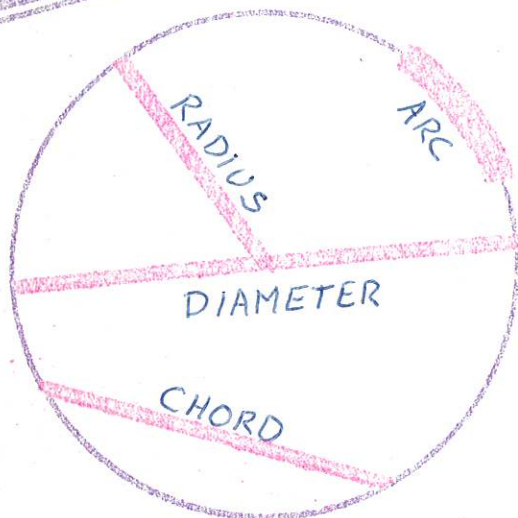
TEST

NAME: MR M HANSEN

CIRCLE THEOREMS

2 MARKS FOR EACH ANSWER

TOTAL = 100

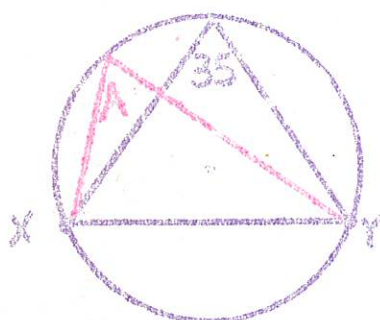


ON THE DIAGRAM SHOWN LEFT
MARK ON THE FOLLOWING

1. THE DIAMETER
2. THE RADIUS
3. THE ARC
4. THE CHORD

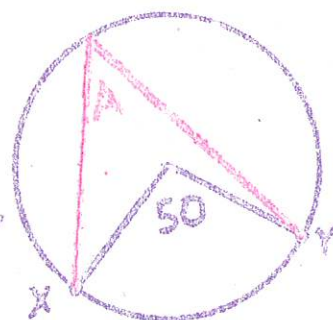
16th MARCH
SH

BASIC THEOREMS : FIND ANGLES A AND B



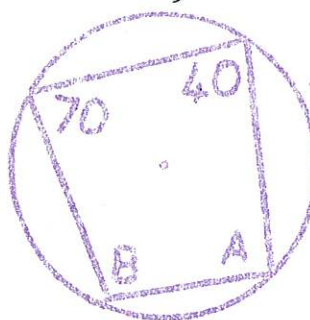
$$A = 35^\circ$$

$$B = 35^\circ$$



$$A = 25^\circ$$

$$B = 25^\circ$$



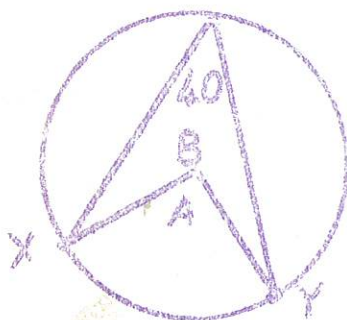
$$A = 110^\circ$$

$$B = 140^\circ$$



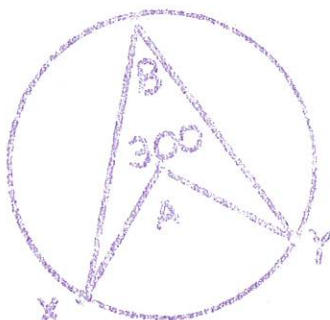
$$A = 90^\circ$$

$$B = 90^\circ$$



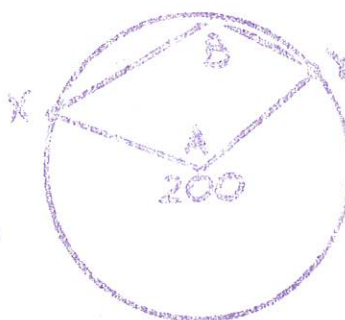
$$A = 80^\circ$$

$$B = 280^\circ$$



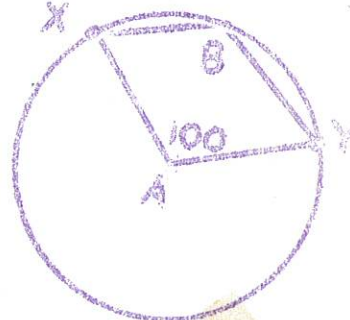
$$A = 60^\circ$$

$$B = 30^\circ$$



$$A = 160^\circ$$

$$B = 100^\circ$$



$$A = 260^\circ$$

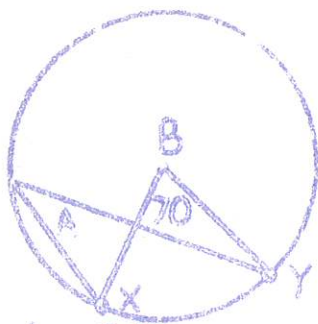
$$B = 130^\circ$$

CIC THEOREM PROBLEMS

03 OCT 1983



$$\begin{aligned} A &= 42^\circ \\ B &= 276^\circ \end{aligned}$$



$$\begin{aligned} A &= 35^\circ \\ B &= 290^\circ \end{aligned}$$



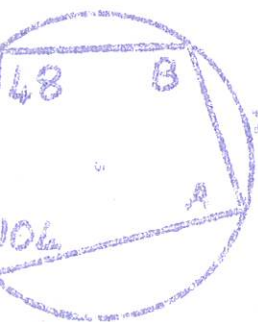
$$\begin{aligned} A &= 90^\circ \\ B &= 90^\circ \end{aligned}$$

(Handwritten corrections: 30, 45, 60, 30, 45, 60)



$$\begin{aligned} A &= 120^\circ \\ B &= 60^\circ \end{aligned}$$

CLIC QUADRILATERAL PROBLEMS



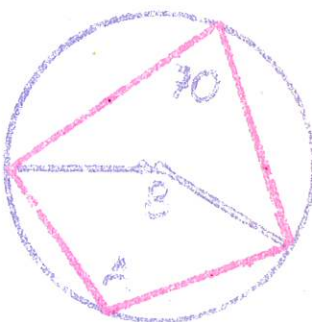
$$\begin{aligned} A &= 132^\circ \\ B &= 76^\circ \end{aligned}$$



$$\begin{aligned} A &= 75^\circ \\ B &= 105^\circ \end{aligned}$$



$$\begin{aligned} A &= 60^\circ \\ B &= 120^\circ \end{aligned}$$

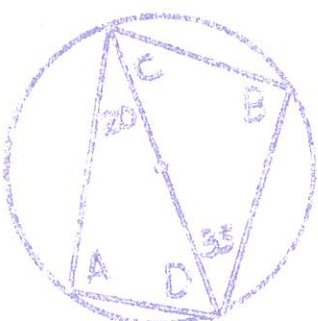


$$\begin{aligned} A &= 110^\circ \\ B &= 35^\circ \text{ and } 140^\circ \end{aligned}$$

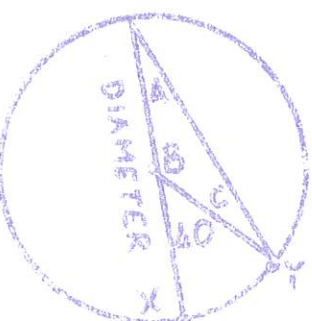
PROBLEMS WITH A DIAMETER



$$\begin{aligned} A &= 90^\circ \\ B &= 40^\circ \end{aligned}$$



$$\begin{aligned} A &= 90^\circ \\ B &= 90^\circ \\ C &= 45^\circ \text{ and } 55^\circ \\ D &= 70^\circ \end{aligned}$$



$$\begin{aligned} A &= 20^\circ \\ B &= 140^\circ \\ C &= 20^\circ \end{aligned}$$



$$\begin{aligned} A &= 30^\circ \\ B &= 120^\circ \\ C &= 30^\circ \\ D &= 60^\circ \end{aligned}$$