

1.4 Answers

GCSE Mathematics Non-Right Angled Trigonometry

1.4.1 Solution to 1.2 Example

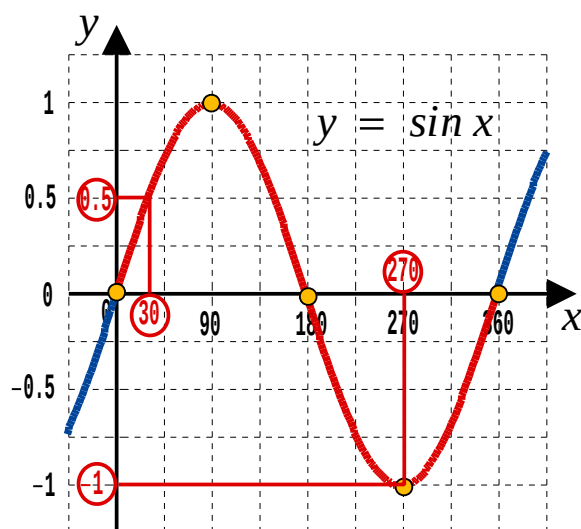
(i) $y = \sin 30^\circ$

$$= 0.5$$

(iii) $y = \sin 270^\circ$

$$= -1$$

(ii) and (iv)



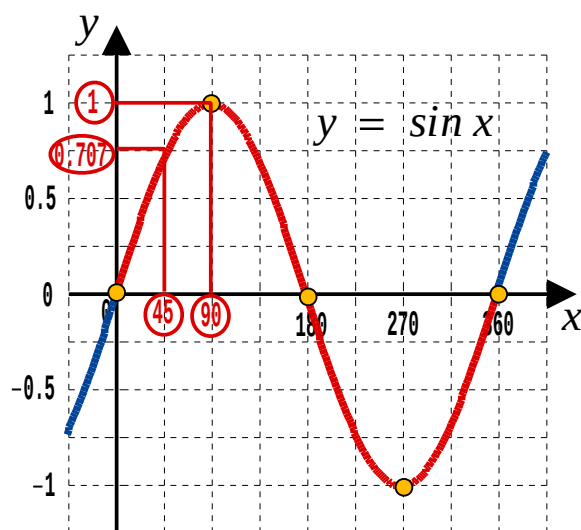
1.4.2 Solutions to 1.3 Exercise

Answer 1

(i) 0.707

(iii) 1

(ii) and (iv)



Answer 2

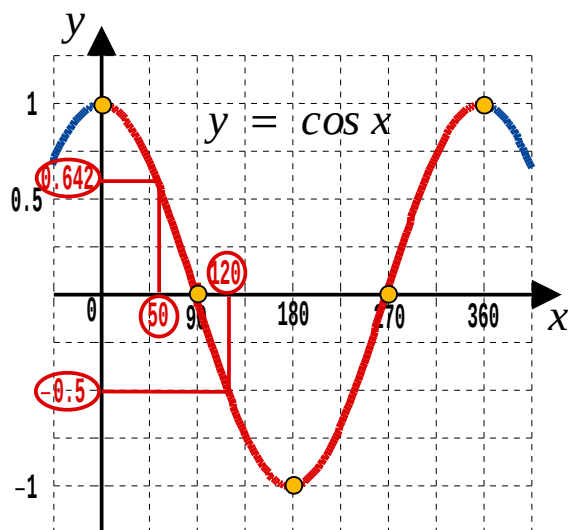
2.25

Answer 3

(i) 0.642

(iii) - 0.5

(ii) and (iv)

**Answer 4**

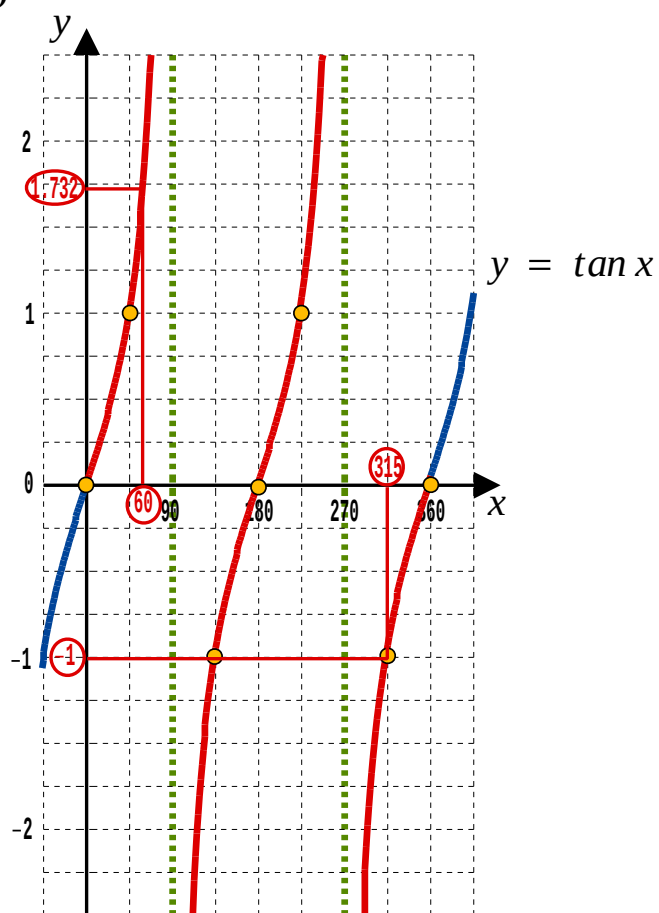
0.302

Answer 5

(i) 1.732

(iii) - 1

(ii) and (iv)



Answer 6

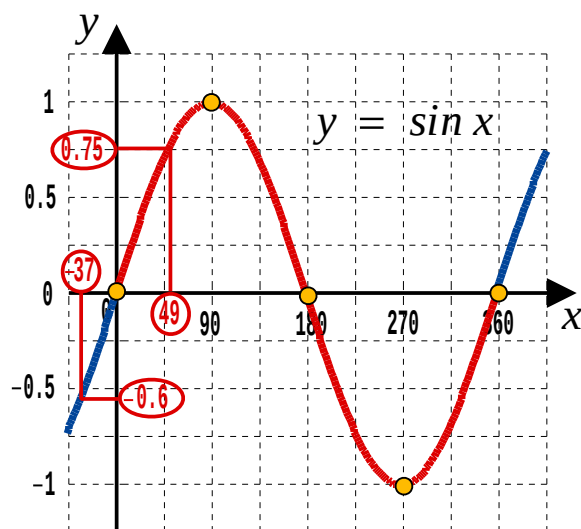
2

Answer 7

(i) 48.6°

(iii) -36.8°

(ii) and (iv)



Answer 8

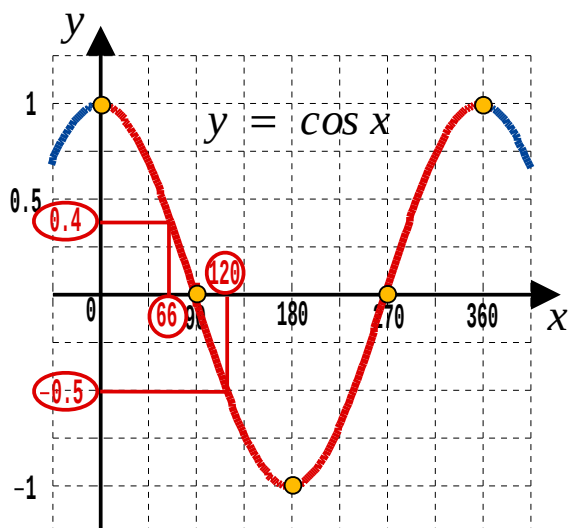
- 1.318

Answer 9

(i) 66.4°

(iii) 120°

(ii) and (iv)

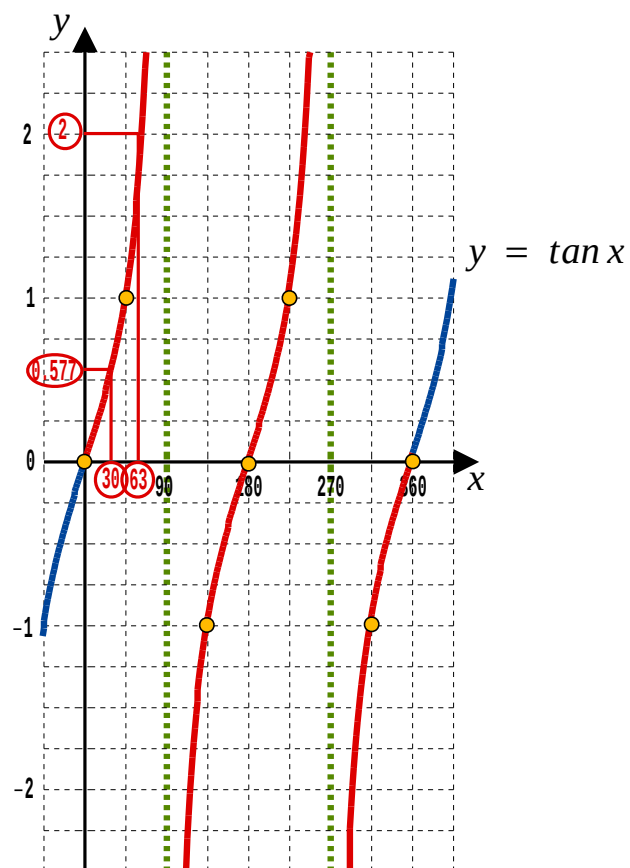


Answer 10

19.104

Answer 11**(i)** 63.93° **(iii)** 30°

$$\text{Note : } \frac{1}{\sqrt{3}} = 0.577$$

(ii) and **(iv)**

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Teachers may obtain detailed worked solutions to the exercises by email from MHShrewsbury@Gmail.com