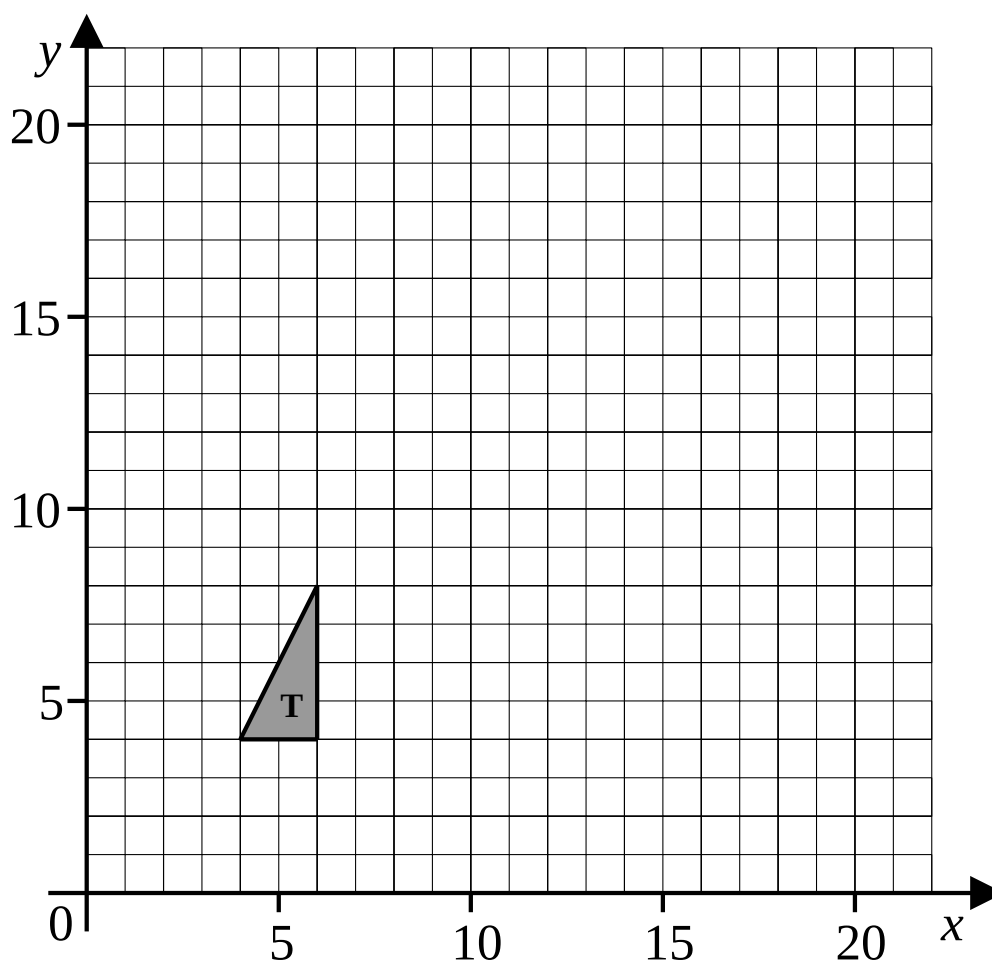


7.5 Homework (Examination Style Questions)

GCSE Mathematics
Transformation Geometry

Question 1



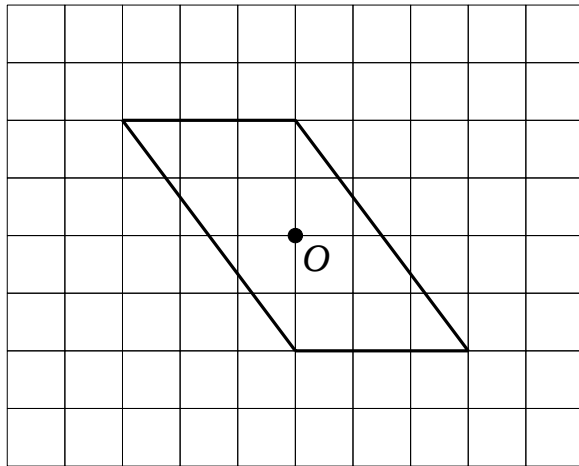
On the grid, enlarge triangle **T** with a scale factor of $2\frac{1}{2}$ and centre (0, 0)

[3 marks]

Question 2

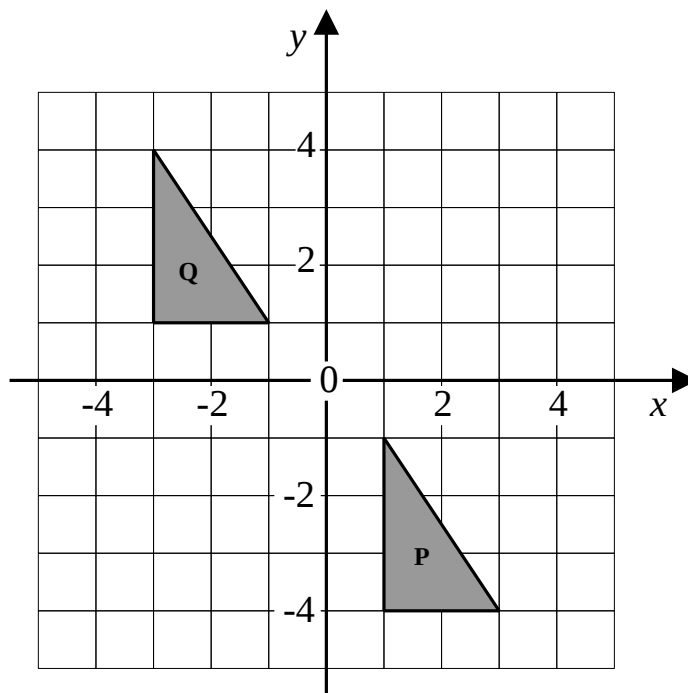
The diagram shows a parallelogram.

- (a) On the grid, rotate the parallelogram through 90° anticlockwise about the point O .



[2 marks]

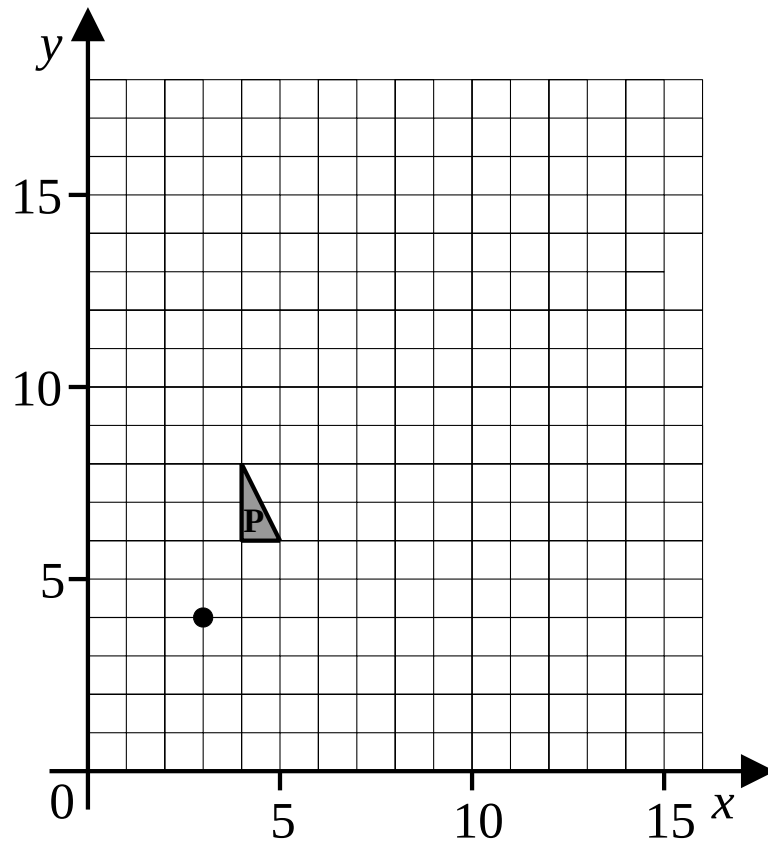
- (b)



Describe fully the single transformation that maps triangle P onto triangle Q .

[2 marks]

Question 3



- (a) On the grid, enlarge triangle **P** with scale factor 3 and centre (3, 4).
Label the new triangle **Q**.

[3 marks]

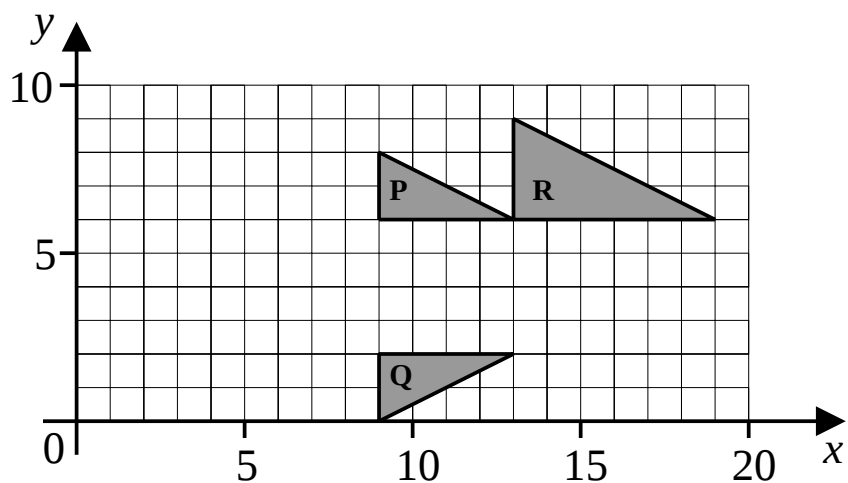
- (b) On the grid, translate triangle **Q** by the vector $\begin{pmatrix} 4 \\ -8 \end{pmatrix}$
Label the new triangle **R**.

[2 marks]

- (c) Describe fully the single transformation which
maps triangle **P** onto triangle **R**.

[2 marks]

Question 4



- (a) Describe fully the single transformation which maps triangle **P** onto triangle **Q**.

[2 marks]

- (b) Describe fully the single transformation which maps triangle **P** onto triangle **R**.

[3 marks]