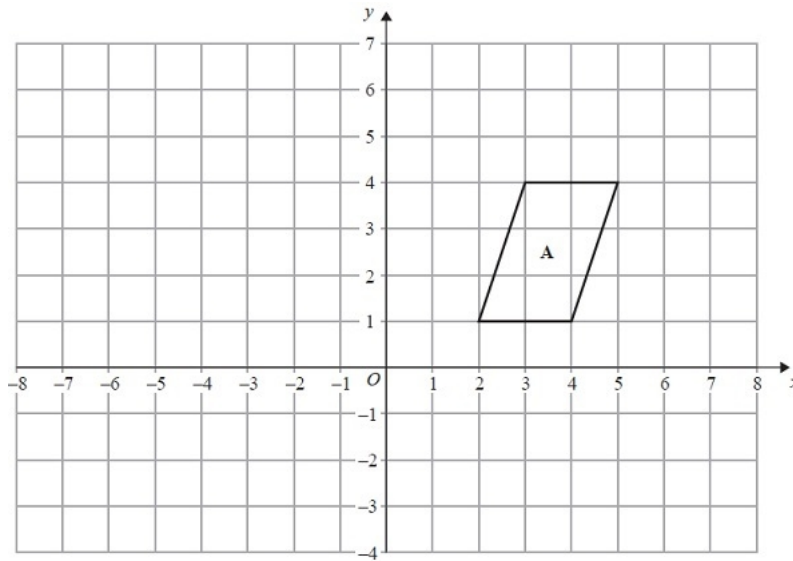


Mixed Transformations Past Paper Questions

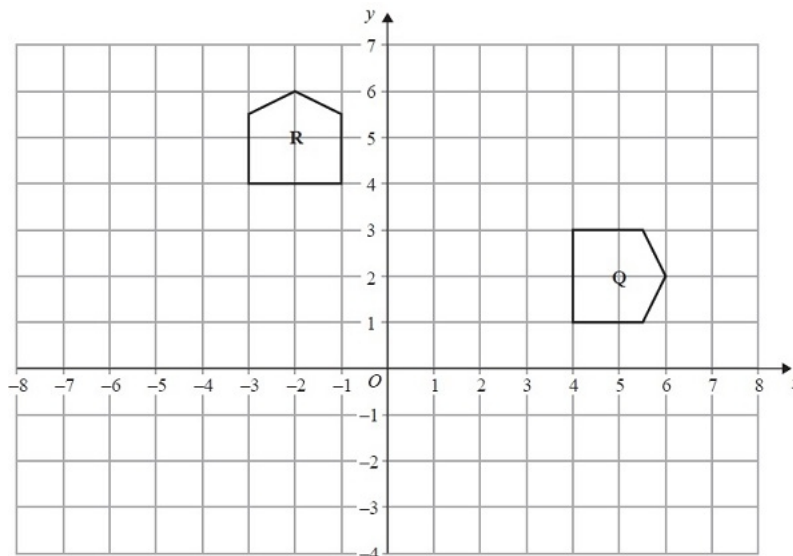


Q1.



(a) Translate shape **A** by the vector $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$.

(1)



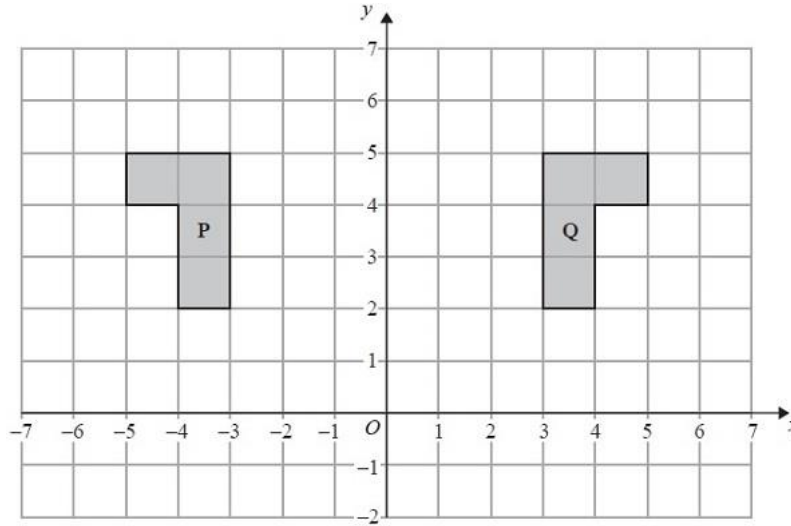
(b) Describe fully the single transformation that maps shape **Q** onto shape **R**.

.....
.....
.....
.....

(3)

Q2.

Two shapes are shown on the grid.



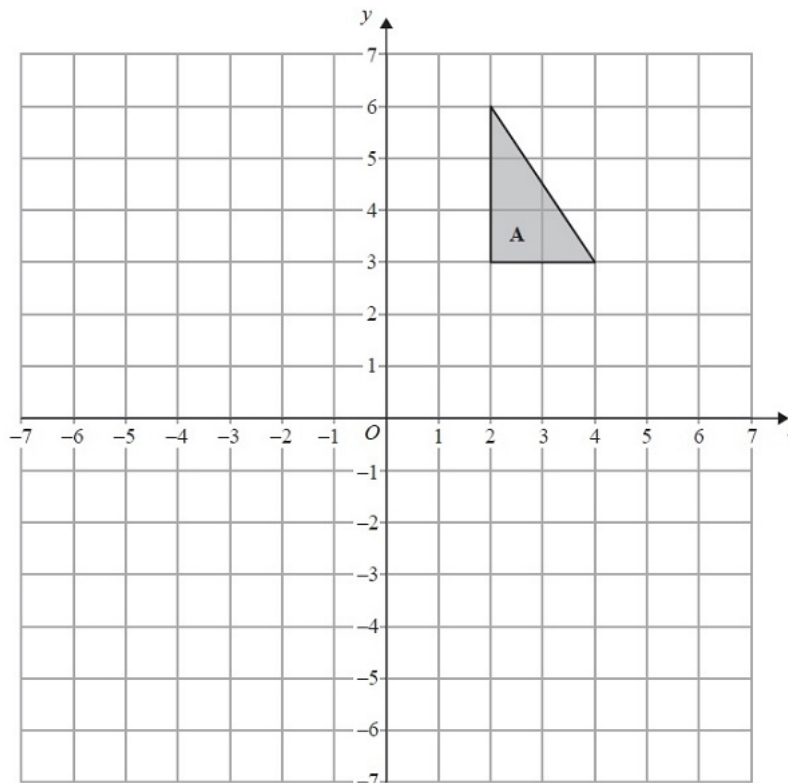
(a) Describe fully the single transformation that maps shape **P** onto shape **Q**.

.....

.....

.....

(2)



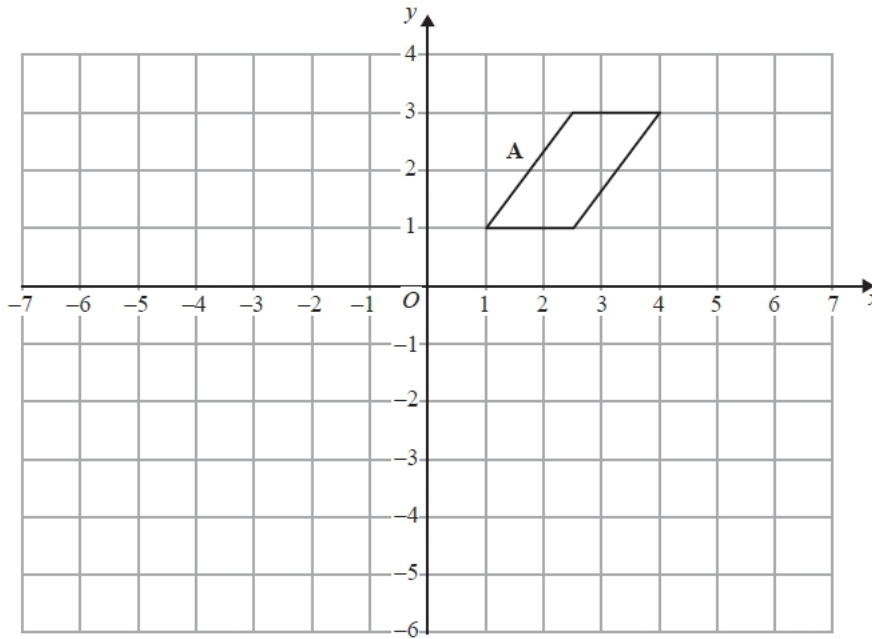


(b) Rotate triangle **A** 90° clockwise about the point $(0, 2)$.
Label the new triangle **B**.

(2)

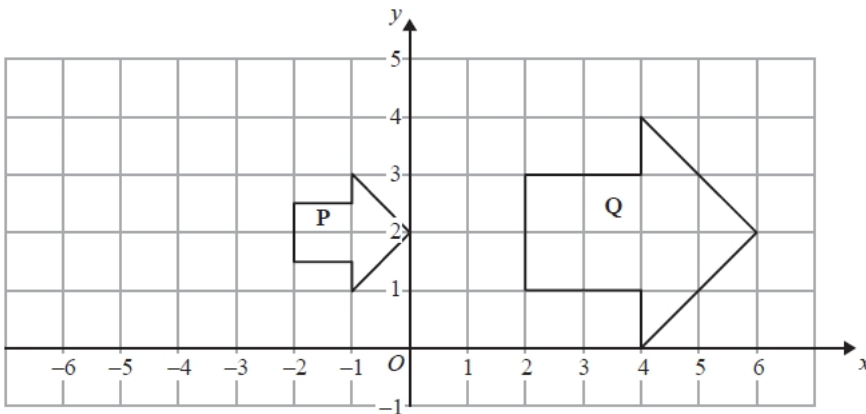
(Total for Question is 4 marks)

Q3.



(a) Reflect shape **A** in the line $x = -1$

(2)



(b) Describe fully the single transformation that maps shape **P** onto shape **Q**.

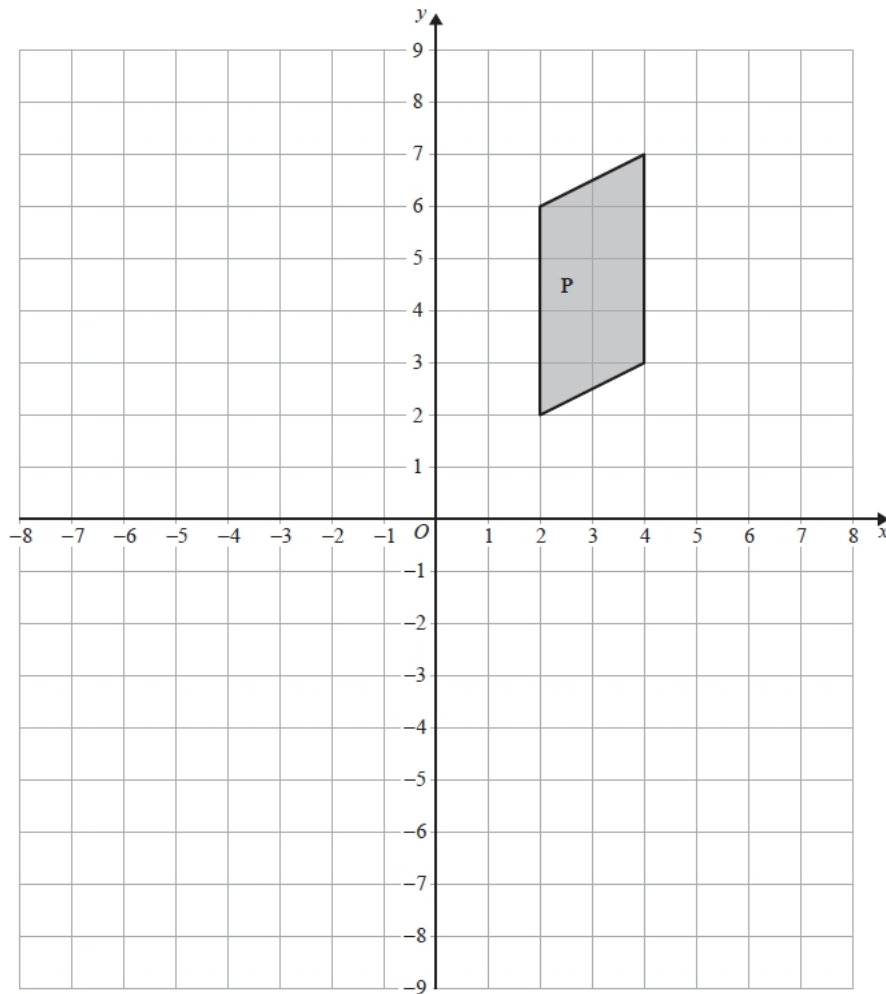
.....
.....

(3)



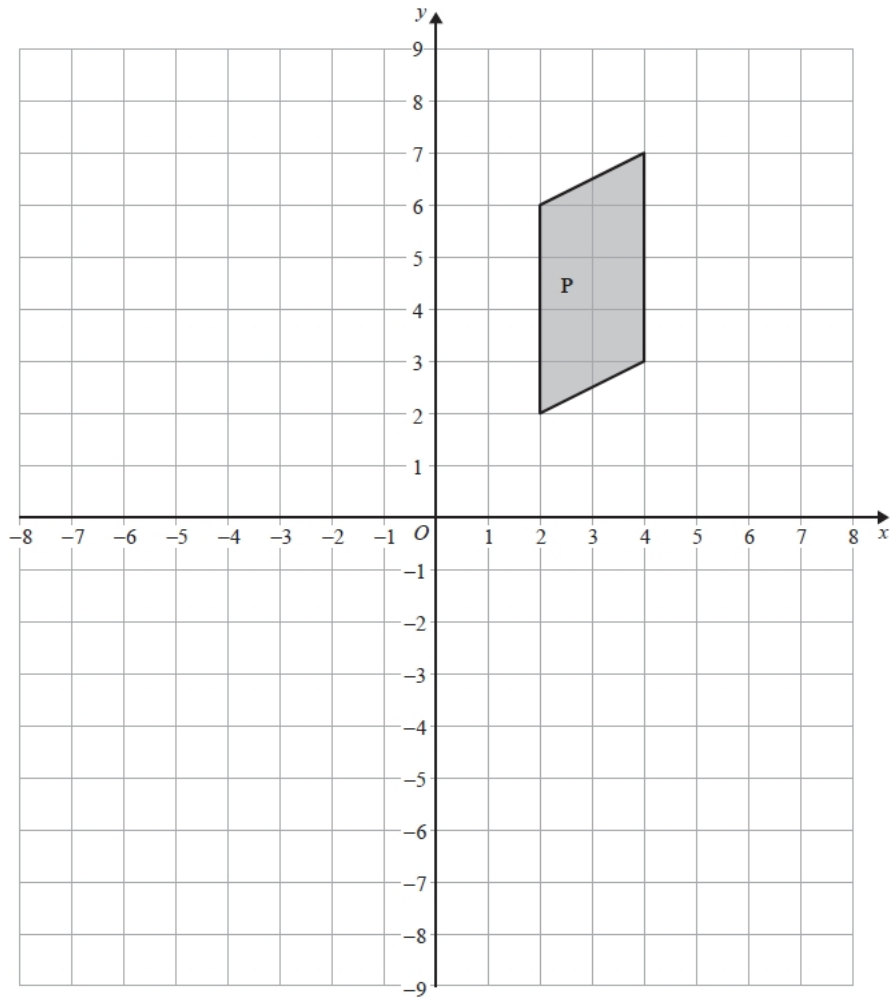
(Total for question = 5 marks)

Q4.



(a) Reflect shape **P** in the line $x = -1$

(2)

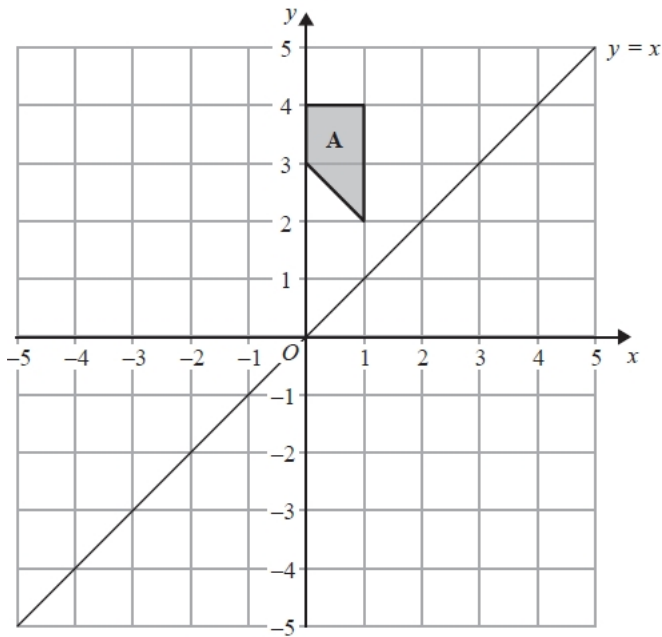


(b) Rotate shape **P** 90° anticlockwise about (0, 1).

(2)

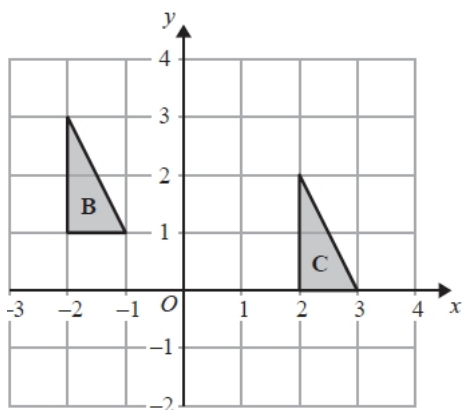
(Total for question = 4 marks)

Q5.



(a) On the grid, reflect shape **A** in the line $y = x$.

(2)



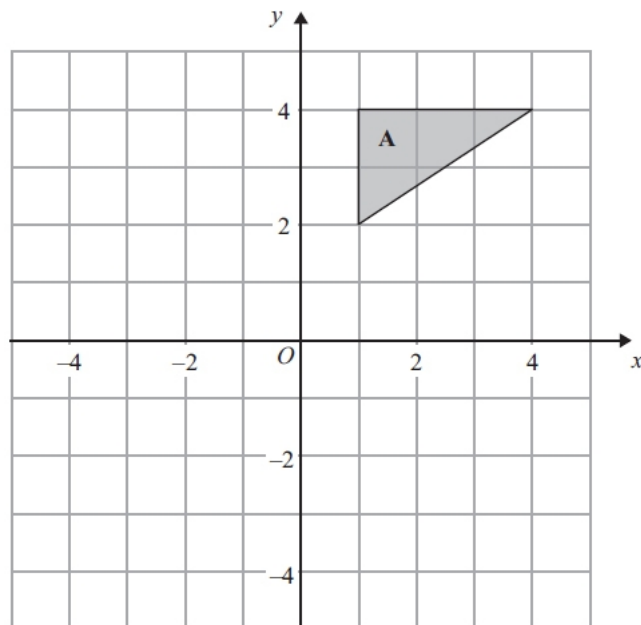
(b) Describe fully the single transformation that maps triangle **B** onto triangle **C**.

.....
.....

(2)

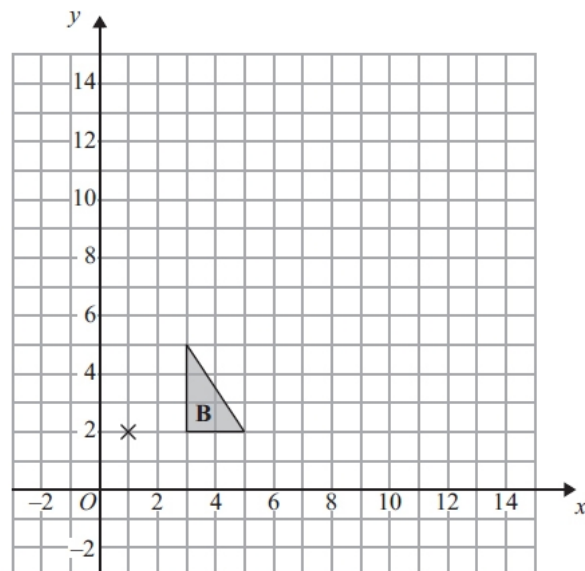
(Total for question = 4 marks)

Q6.



(a) Rotate triangle **A** 90° clockwise, centre O .

(2)

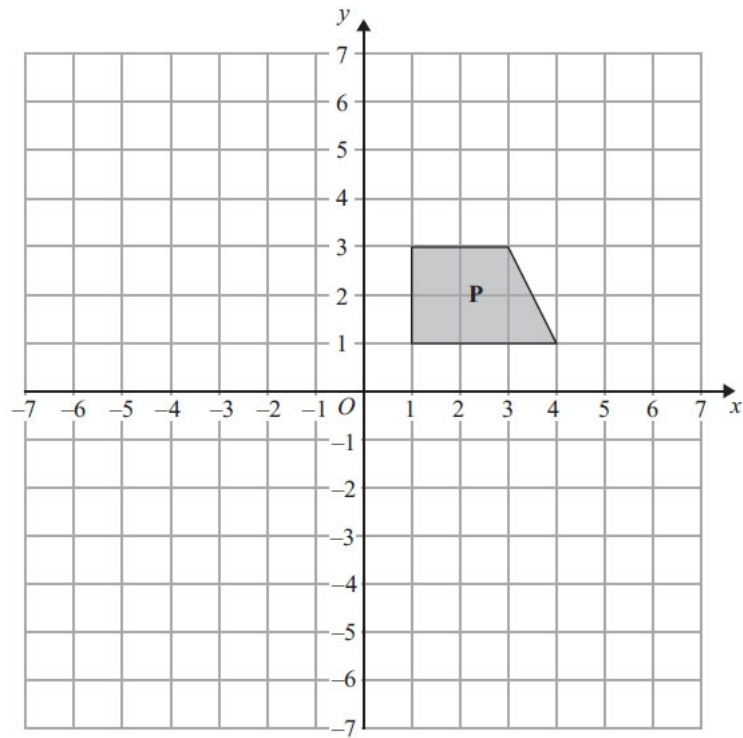


(b) Enlarge triangle **B** by scale factor 3, centre (1, 2).

(3)

(Total for Question is 5 marks)

Q7.



Shape **P** is reflected in the line $x = -1$ to give shape **Q**.

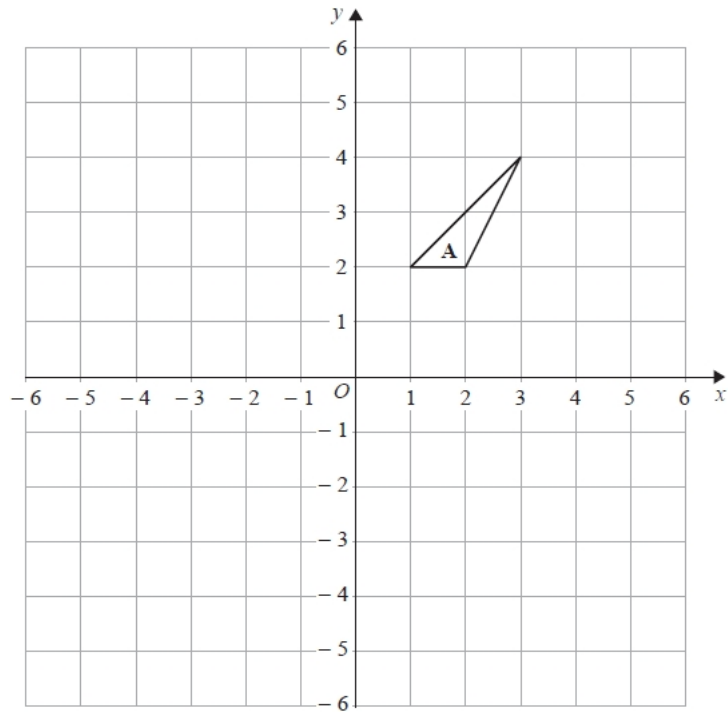
Shape **Q** is reflected in the line $y = 0$ to give shape **R**.

Describe fully the **single** transformation that maps shape **P** onto shape **R**.

.....
.....

(Total for Question is 3 marks)

Q8.



Triangle **A** is rotated 90° clockwise about the point $(0, 1)$ to give triangle **B**.

Triangle **B** is translated by the vector $\begin{pmatrix} -3 \\ -1 \end{pmatrix}$ to give triangle **C**.

Describe fully the single transformation that maps triangle **A** onto triangle **C**.

.....
.....

(3)

(Total for question = 3 marks)