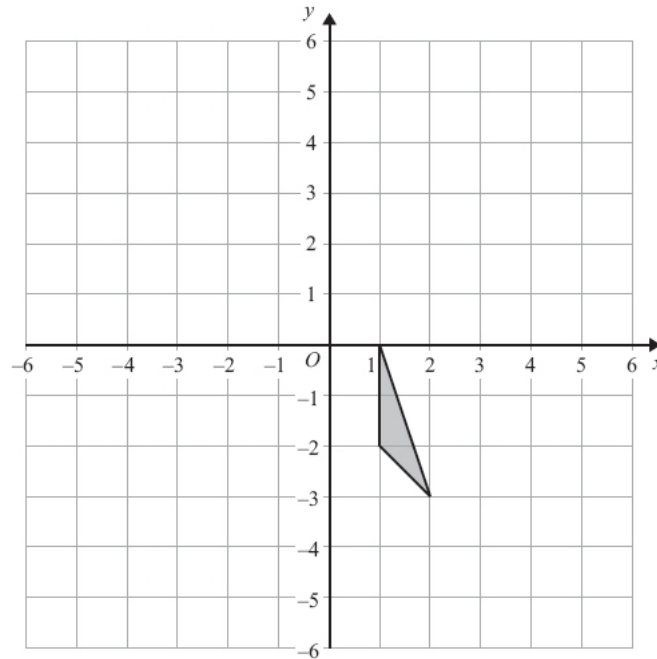


## Translations Past Paper Questions



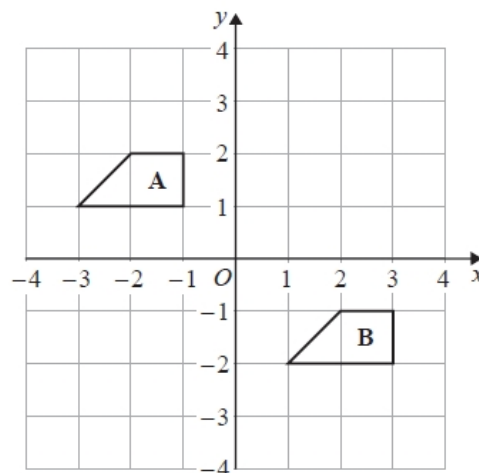
Q1.



Translate the triangle by  $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$ .

(Total for Question is 2 marks)

Q2.

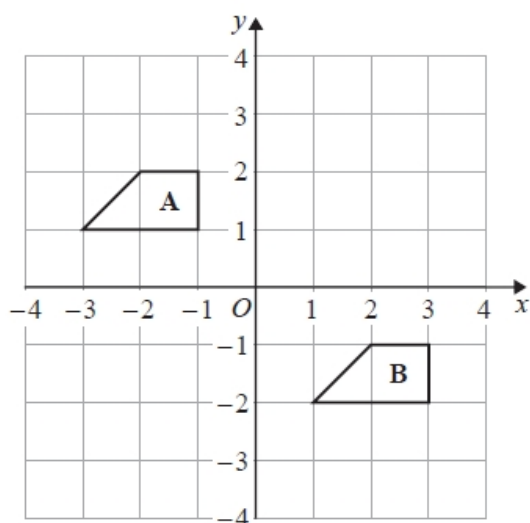


Describe the single transformation that maps shape A onto shape B.

.....  
.....

(Total for question = 2 marks)

Q3.

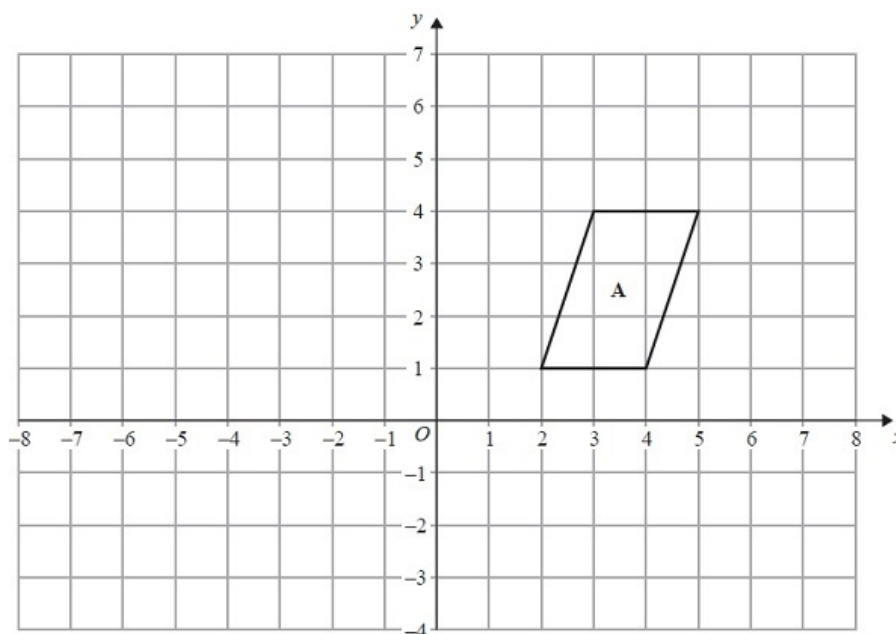


Describe the single transformation that maps shape **A** onto shape **B**.

.....  
.....

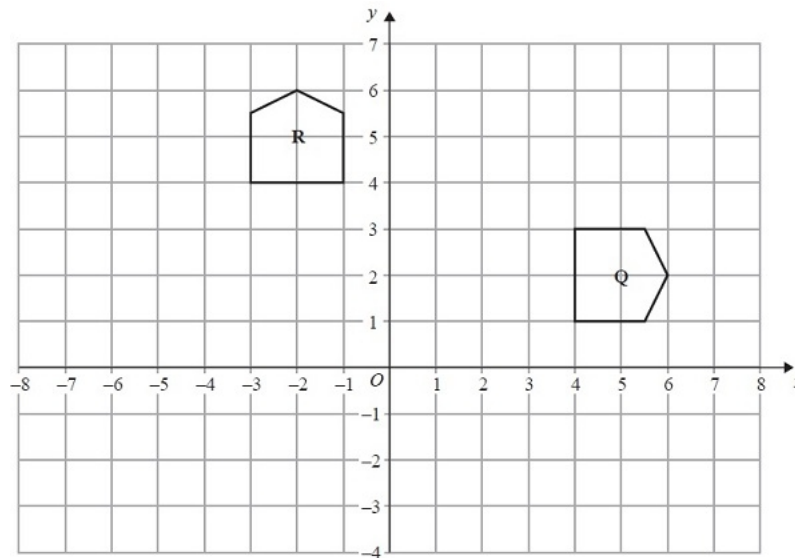
(Total for question = 2 marks)

Q4.



(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)

(Total for Question is 4 marks)

**Q5.**

Shape **A** is translated by the vector  $\begin{pmatrix} 4 \\ -7 \end{pmatrix}$  to make Shape **B**.

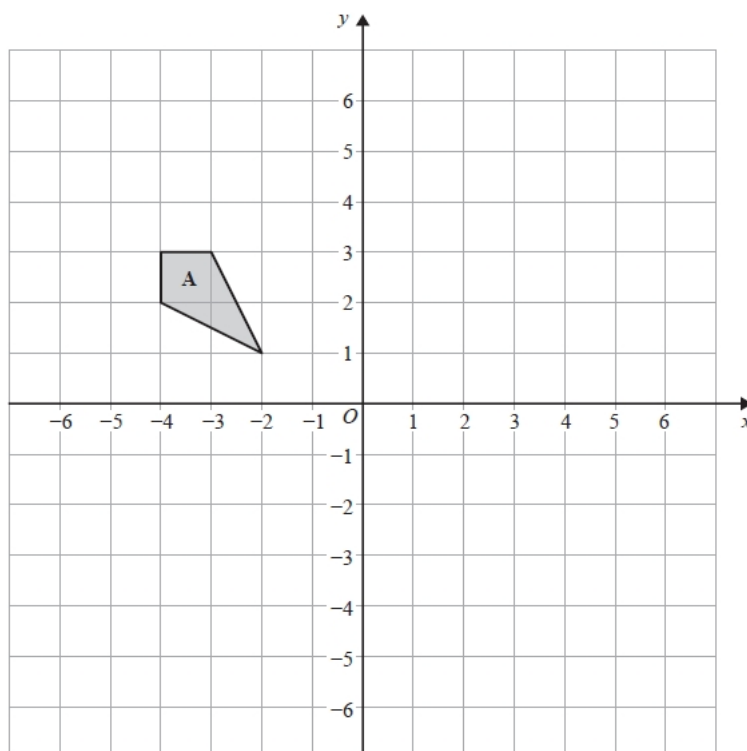
Shape **B** is then translated by the vector  $\begin{pmatrix} -3 \\ -2 \end{pmatrix}$  to make Shape **C**.

Describe the single transformation that maps Shape **A** onto Shape **C**.

.....

(Total for question = 2 marks)

Q6.



(a) On the grid, translate shape **A** by the vector  $\begin{pmatrix} 6 \\ -5 \end{pmatrix}$   
Label the new shape **B**.

(1)

(b) On the grid, translate shape **B** by the vector  $\begin{pmatrix} -8 \\ 8 \end{pmatrix}$   
Label the new shape **C**.

(1)

(c) Write down the column vector for the translation that maps shape **A** onto shape **C**.

$\begin{pmatrix} \phantom{0} \\ \phantom{0} \end{pmatrix}$

(1)

(Total for question = 3 marks)