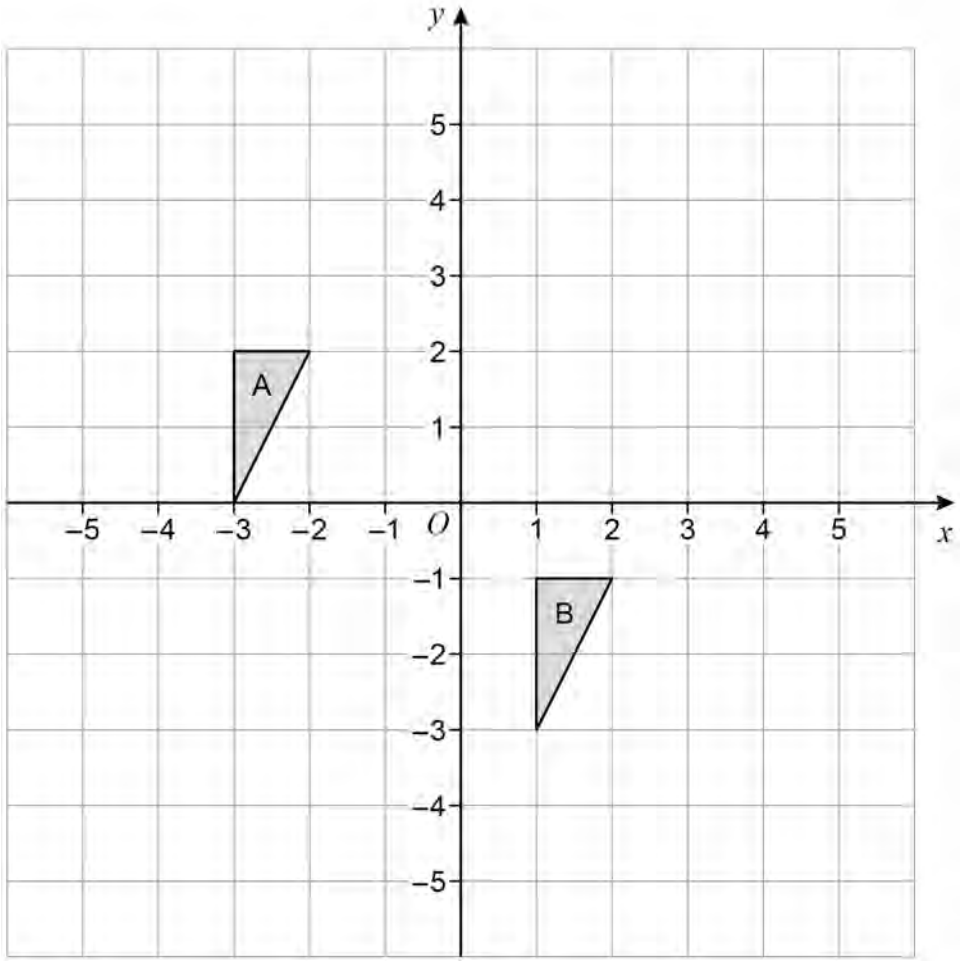
1 Circle the vector that translates the point (–2, 7) to the point (3, –1)

[1 mark]

$\begin{pmatrix} 5 \\ -6 \end{pmatrix}$ $\begin{pmatrix} 5 \\ -8 \end{pmatrix}$ $\begin{pmatrix} -5 \\ 8 \end{pmatrix}$ $\begin{pmatrix} -5 \\ 6 \end{pmatrix}$

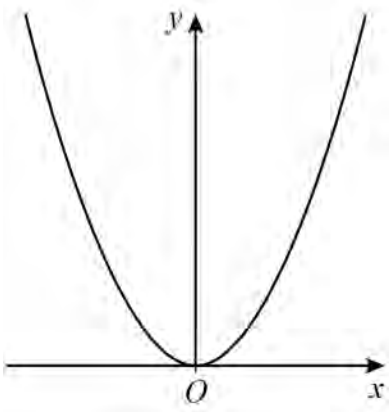
2 Write down the translation vector that maps shape A onto shape B.

[2 marks]



Answer _____

3 Here is a sketch of $y = x^2$

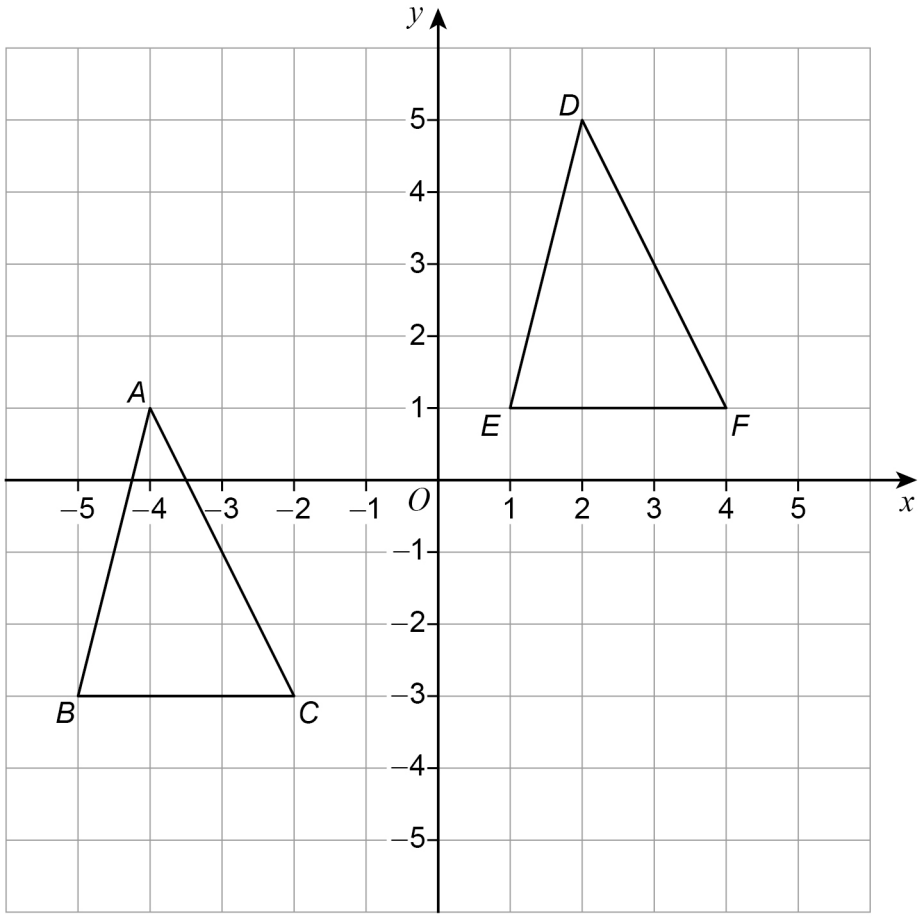


3 (a) $y = x^2$ is now transformed to give $y = (x + 3)^2$

Describe fully this single transformation.

[2 marks]

4 Triangles *ABC* and *DEF* are shown on a grid.



Describe a single transformation that shows the triangles are congruent.

[2 marks]

5 The vector $\begin{pmatrix} -3 \\ 7 \end{pmatrix}$ translates A to B.

Write down the vector that translates B to A.

[1 mark]

Answer $\begin{pmatrix} \quad \\ \quad \end{pmatrix}$