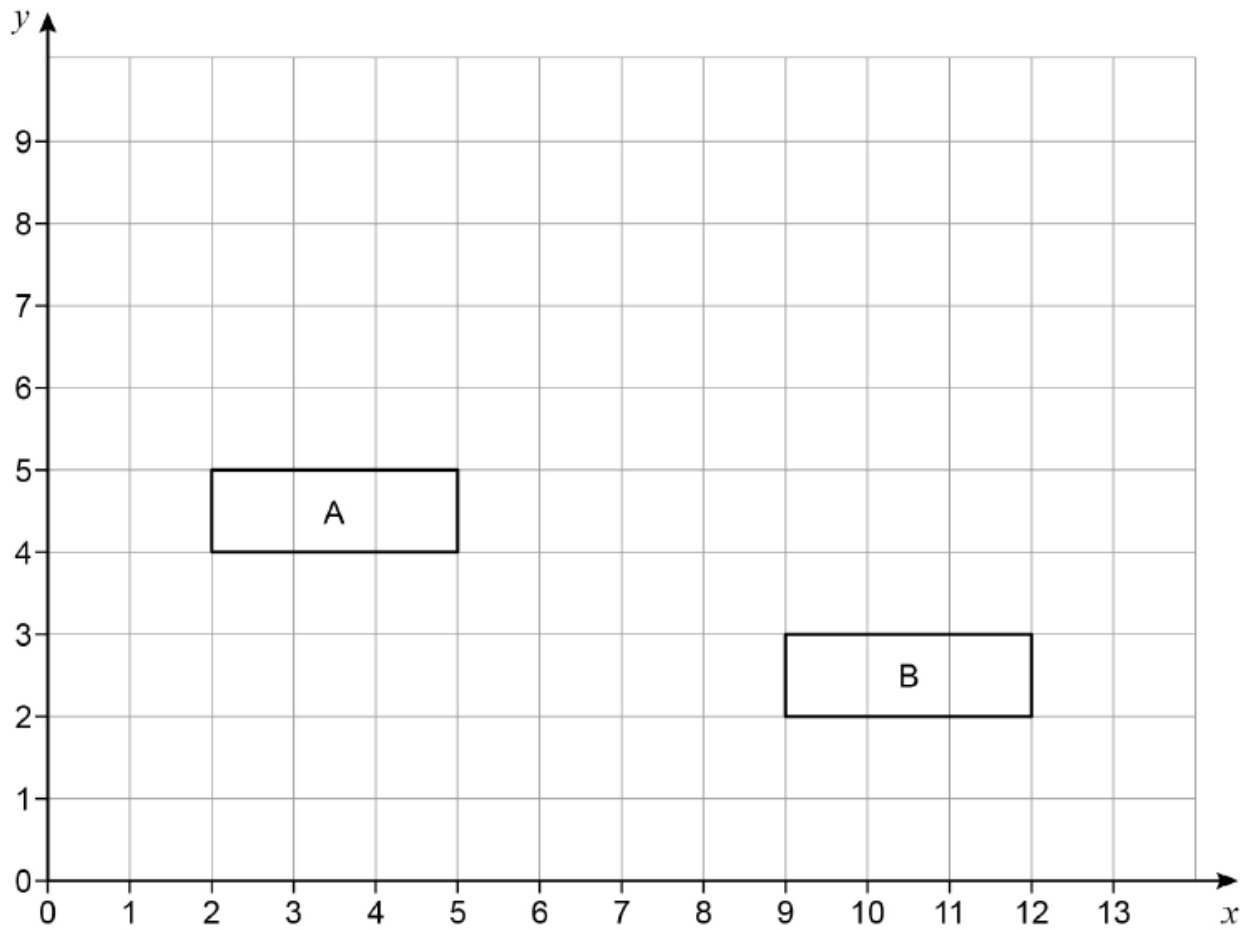


Vectors – GCSE Mathematics Paper 1

1. No.14



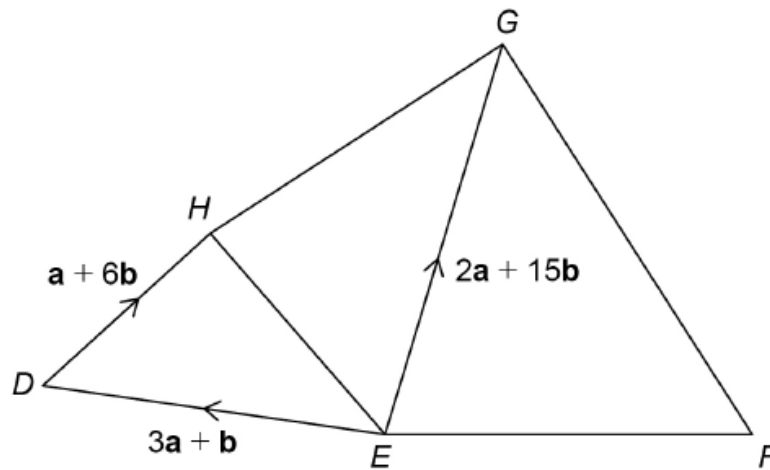
Work out the vector that translates shape A to shape B.

[2 marks]

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

2. No.21

Five points are connected by vectors.

Not drawn
accurately

$$\vec{FG} = 2\vec{EH}$$

Work out $\vec{FE}$ in terms of a and b .**[4 marks]**

Answer _____

3. No.17

Circle the vector that translates the point $(-2, 7)$ to the point $(3, -1)$ **[1 mark]**

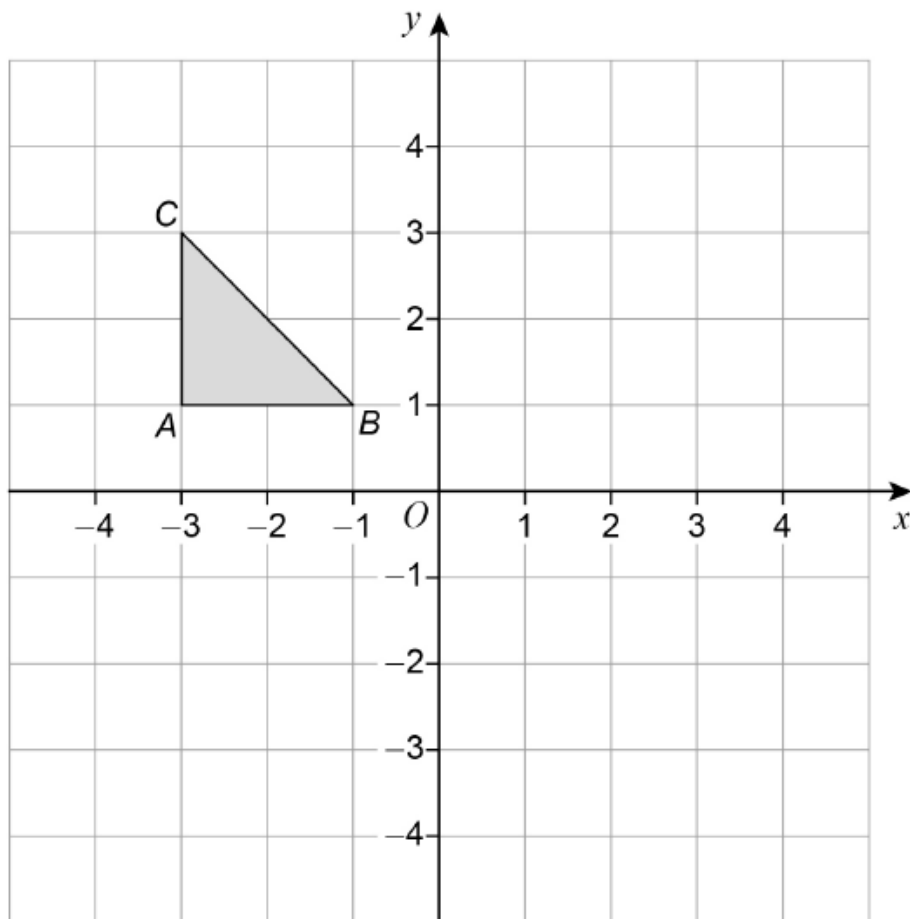
$$\begin{pmatrix} 5 \\ -6 \end{pmatrix}$$

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

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

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

4. No.29

Here is triangle ABC on a grid.Describe a **single** transformation of the triangle so thatpoint B is invariantpoint A moves to $(1, 1)$ point C moves to $(1, -1)$ **[3 marks]**
