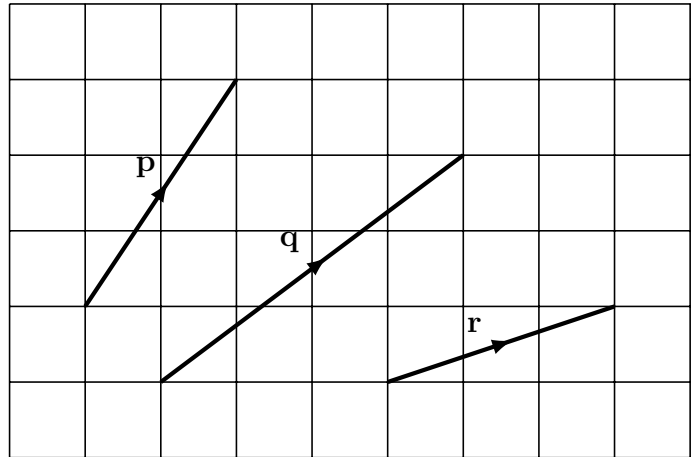
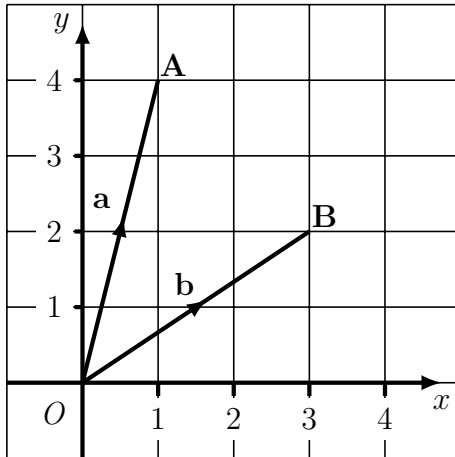


1. Write down the coordinates in the first diagram below

A (,) and B (,)



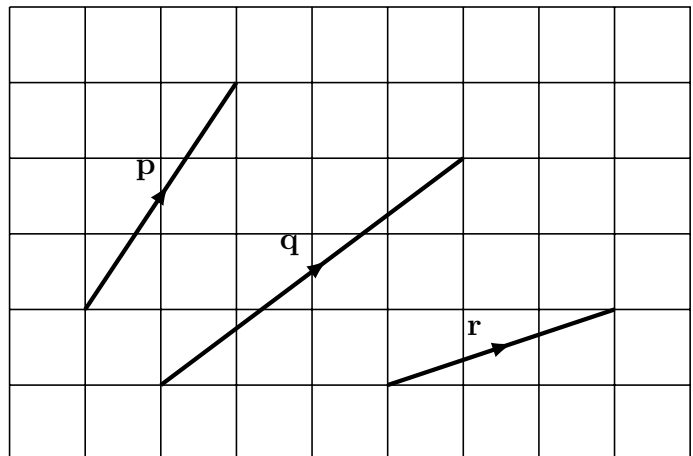
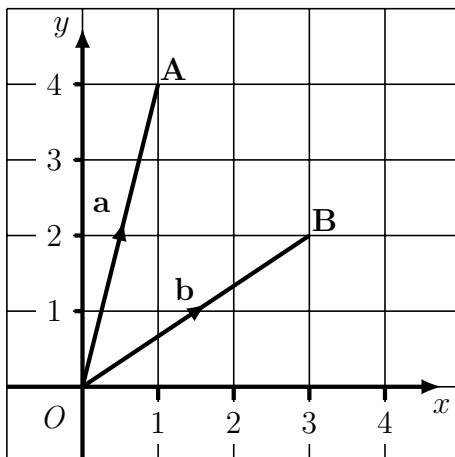
Write down these vectors shown in the diagrams above

$$\mathbf{a} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{b} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \quad \mathbf{p} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{q} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{r} = \begin{pmatrix} \dots \\ \dots \end{pmatrix};$$

$$\text{translateANDvector (1): } A (1, 4) , B (3, 2) , \mathbf{a} = \begin{pmatrix} 1 \\ 4 \end{pmatrix} \mathbf{b} = \begin{pmatrix} 3 \\ 2 \end{pmatrix} \mathbf{p} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} \mathbf{q} = \begin{pmatrix} 4 \\ 3 \end{pmatrix} \mathbf{r} = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$$

1. Write down the coordinates in the first diagram below

A (,) and B (,)



Write down these vectors shown in the diagrams above

$$\mathbf{a} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{b} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \quad \mathbf{p} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{q} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}; \mathbf{r} = \begin{pmatrix} \dots \\ \dots \end{pmatrix};$$

2. ABCDE is an irregular pentagon.

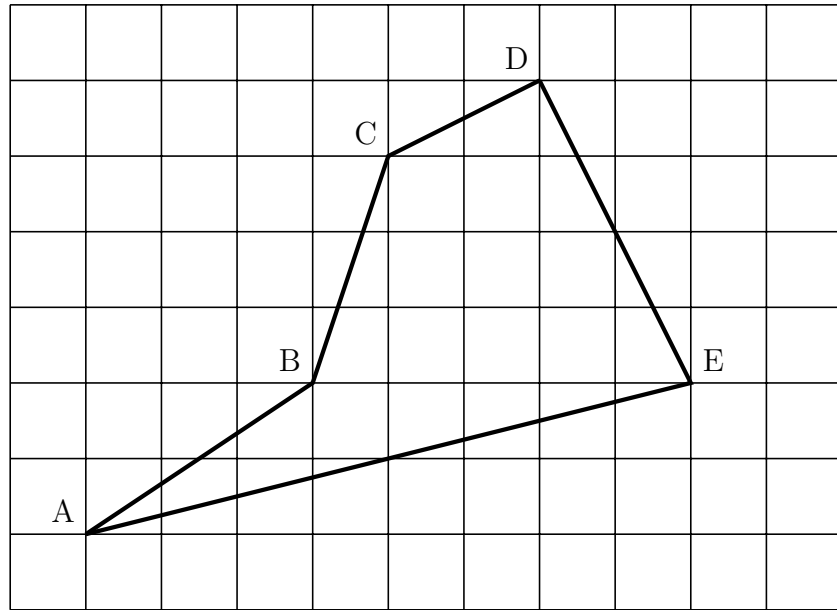
Write down these vectors.

$$\overrightarrow{AB} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{BC} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{CD} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{AE} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$



$$\overrightarrow{AB} = \begin{pmatrix} 3 \\ 2 \end{pmatrix} \quad \overrightarrow{BC} = \begin{pmatrix} 1 \\ 3 \end{pmatrix} \quad \overrightarrow{CD} = \begin{pmatrix} 2 \\ 1 \end{pmatrix} \quad \overrightarrow{AE} = \begin{pmatrix} 8 \\ 2 \end{pmatrix}$$

2. ABCDE is an irregular pentagon.

Write down these vectors.

$$\overrightarrow{AB} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{BC} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{CD} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

$$\overrightarrow{AE} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$

