1.
$$\mathbf{p} = \begin{pmatrix} 5 \\ -2 \end{pmatrix}$$
 $\mathbf{q} = \begin{pmatrix} -3 \\ 1 \end{pmatrix}$

Work out $2\mathbf{p} + 3\mathbf{q}$ as a column vector.

(....)

2.
$$\mathbf{a} = \begin{pmatrix} 3 \\ -2 \end{pmatrix}$$
 $\mathbf{b} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$

Work out $4\mathbf{a} + 3\mathbf{b}$ as a column vector.

(....)

3.
$$\mathbf{p} = \begin{pmatrix} 2 \\ -3 \end{pmatrix}$$
 $\mathbf{q} = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$

Work out \mathbf{p} + $2\mathbf{q}$ as a column vector.

(....)

Answers

- 1. 1 -1
- 2. 6 7
- 3. -2 -1