

$$\begin{pmatrix} 5 \\ -3 \end{pmatrix}$$

A is the point (2, 5). B is the point (-1, 3)
and C is the point (6, -1)

What is the column
vector \overrightarrow{AB} ?

VECTOR PROBLEMS

A

$$\begin{pmatrix} -6 \\ 2 \end{pmatrix}$$

A is the point (2, 5). B is the point (-1, 3) and C is the point (6, -1)

What is the column
vector \overrightarrow{BA} ?

VECTOR PROBLEMS

$$\begin{pmatrix} -5 \\ 13 \end{pmatrix}$$

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

$$\mathbf{q} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

$$\mathbf{r} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$$

Calculate

$$\mathbf{p} + 2\mathbf{q}$$

VECTOR PROBLEMS

C

$$\begin{pmatrix} -3 \\ 3 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} - \begin{pmatrix} 4 \\ -2 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

VECTOR PROBLEMS

$$\begin{pmatrix} 5 \\ -13 \end{pmatrix}$$

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

$$\mathbf{q} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

$$\mathbf{r} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$$

Calculate

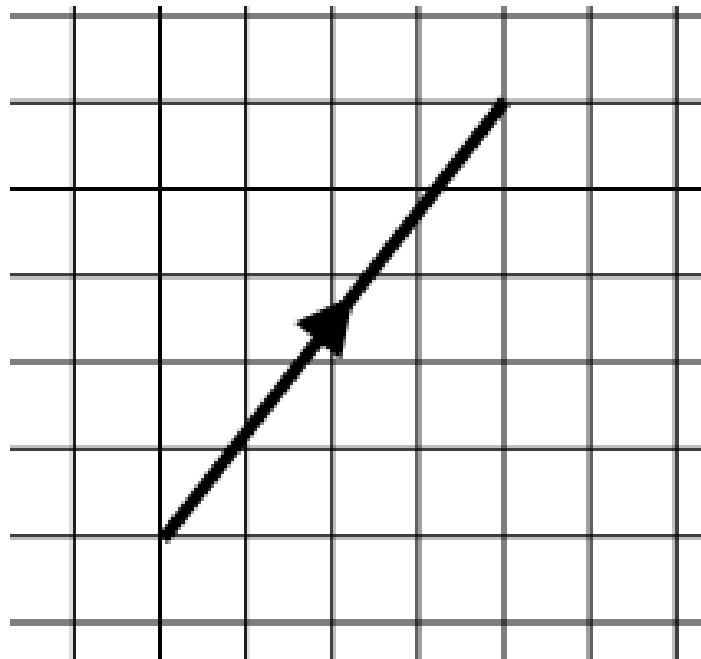
$$2\mathbf{p} - \mathbf{q}$$

VECTOR PROBLEMS

E

$$\begin{pmatrix} 4 \\ -6 \end{pmatrix}$$

Express the vector
shown as a column
vector



VECTOR PROBLEMS

$$\begin{pmatrix} -4 \\ 6 \end{pmatrix}$$

A is the point (2, 5). B is the point (-1, 3) and C is the point (6, -1)

What is the column
vector \overrightarrow{AC} ?

VECTOR PROBLEMS

$$\begin{pmatrix} -4 \\ -5 \end{pmatrix}$$

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

$$\mathbf{q} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

$$\mathbf{r} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$$

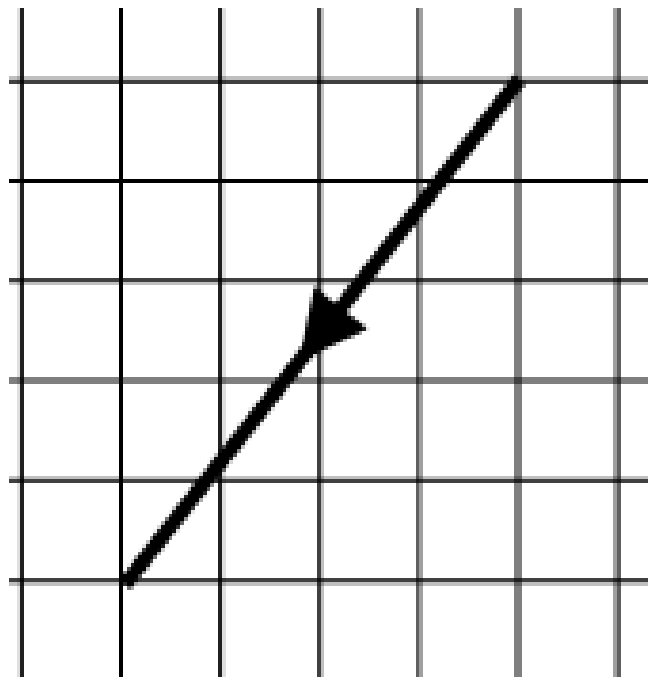
Calculate

$$\mathbf{p} - 2\mathbf{r}$$

VECTOR PROBLEMS

$$\begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

Express the vector
shown as a column
vector



VECTOR PROBLEMS

$$\begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} + \begin{pmatrix} x \\ 5 \end{pmatrix} = \begin{pmatrix} 12 \\ -1 \end{pmatrix}$$

VECTOR PROBLEMS

$$\begin{pmatrix} 6 \\ -2 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} - \begin{pmatrix} -2 \\ -3 \end{pmatrix} = \begin{pmatrix} 0 \\ -3 \end{pmatrix}$$

VECTOR PROBLEMS

K

$$\begin{pmatrix} 3 \\ -5 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} + \begin{pmatrix} -2 \\ -3 \end{pmatrix} = \begin{pmatrix} 0 \\ -3 \end{pmatrix}$$

VECTOR PROBLEMS

$$\begin{pmatrix} 3 \\ 2 \end{pmatrix}$$

A is the point (2, 5). B is the point (-1, 3)
and C is the point (6, -1)

What is the column
vector \overrightarrow{CA} ?

VECTOR PROBLEMS

M

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

Write down the vector
that is in the same
direction as $\begin{pmatrix} 6 \\ -2 \end{pmatrix}$ but is
3 times as long

VECTOR PROBLEMS

$$\begin{pmatrix} 5 \\ -1 \end{pmatrix}$$

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

$$\mathbf{q} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$$

$$\mathbf{r} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$$

Calculate

$$2\mathbf{r} - \mathbf{p}$$

VECTOR PROBLEMS

0

$$\begin{pmatrix} -3 \\ -2 \end{pmatrix}$$

Write down the vector that is in the opposite direction as $\begin{pmatrix} 6 \\ -2 \end{pmatrix}$ and is 3 times as long

VECTOR PROBLEMS

$$\begin{pmatrix} 18 \\ -6 \end{pmatrix}$$

Write down the vector
that is in the opposite
direction as $\begin{pmatrix} -3 \\ 1 \end{pmatrix}$ and is
2 times as long

VECTOR PROBLEMS

$$\begin{pmatrix} 0 \\ -6 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} + \begin{pmatrix} 4 \\ -2 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

VECTOR PROBLEMS

$$\begin{pmatrix} -18 \\ 6 \end{pmatrix}$$

Find the vector $\begin{pmatrix} x \\ y \end{pmatrix}$

$$\begin{pmatrix} x \\ y \end{pmatrix} + \begin{pmatrix} 2 \\ 5 \end{pmatrix} = \begin{pmatrix} 5 \\ 0 \end{pmatrix}$$

VECTOR PROBLEMS

S

$$\begin{pmatrix} -2 \\ -6 \end{pmatrix}$$

Write down the vector
that is in the same
direction as $\begin{pmatrix} -3 \\ 1 \end{pmatrix}$ and is
2 times as long

VECTOR PROBLEMS

T

VECTOR PROBLEMS
TREASURE HUNT

