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

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

B

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

p = $\begin{pmatrix} 1 \\ -3 \end{pmatrix}$ **q** = $\begin{pmatrix} 2 \\ 0 \end{pmatrix}$ **r** = $\begin{pmatrix} -2 \\ 5 \end{pmatrix}$

Calculate

p + 2q

VECTOR PROBLEMS

C

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

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

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

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

p = $\begin{pmatrix} 1 \\ -3 \end{pmatrix}$ **q** = $\begin{pmatrix} 2 \\ 0 \end{pmatrix}$ **r** = $\begin{pmatrix} -2 \\ 5 \end{pmatrix}$

Calculate

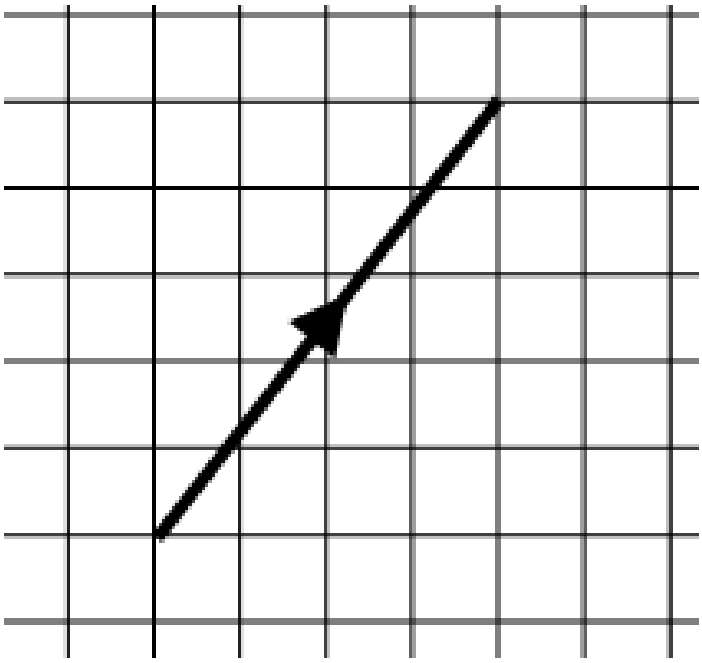
2p - q

VECTOR PROBLEMS

E

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

Express the vector shown as a column vector



VECTOR PROBLEMS

F

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

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

G

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

p = $\begin{pmatrix} 1 \\ -3 \end{pmatrix}$ **q** = $\begin{pmatrix} 2 \\ 0 \end{pmatrix}$ **r** = $\begin{pmatrix} -2 \\ 5 \end{pmatrix}$

Calculate

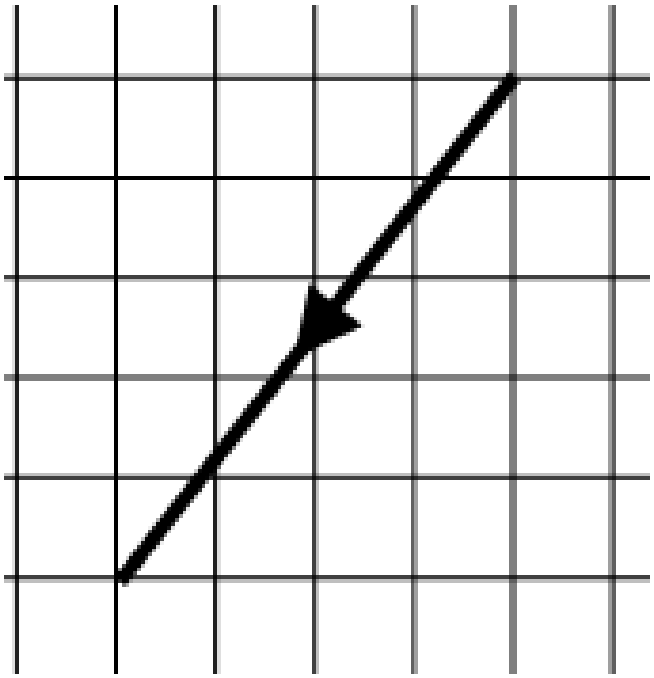
$$\mathbf{p} - 2\mathbf{r}$$

VECTOR PROBLEMS

H

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

Express the vector shown as a column vector



VECTOR PROBLEMS

I

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

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

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

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

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

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

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

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

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

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

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

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

p = $\begin{pmatrix} 1 \\ -3 \end{pmatrix}$ **q** = $\begin{pmatrix} 2 \\ 0 \end{pmatrix}$ **r** = $\begin{pmatrix} -2 \\ 5 \end{pmatrix}$

Calculate

2r - p

VECTOR PROBLEMS

O

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

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

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

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

Q

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

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

R

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

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

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

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

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