

1. Nov/2020/Paper_13/No.11

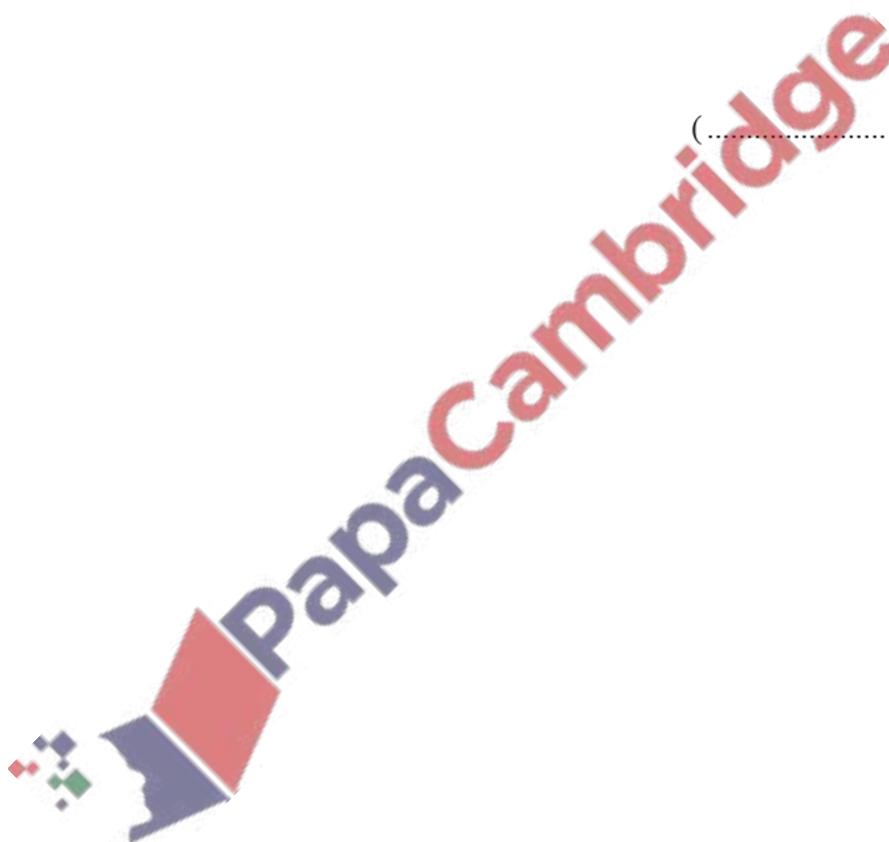
A straight line, l , has equation $y = 5x + 12$.

(a) Write down the slope of line l .

..... [1]

(b) Find the coordinates of the point where line l crosses the x -axis.

(.....,) [2]



2. Nov/2020/Paper_23/No.12

A straight line, l , has equation $y = 5x + 12$.

(a) Write down the slope of line l .

..... [1]

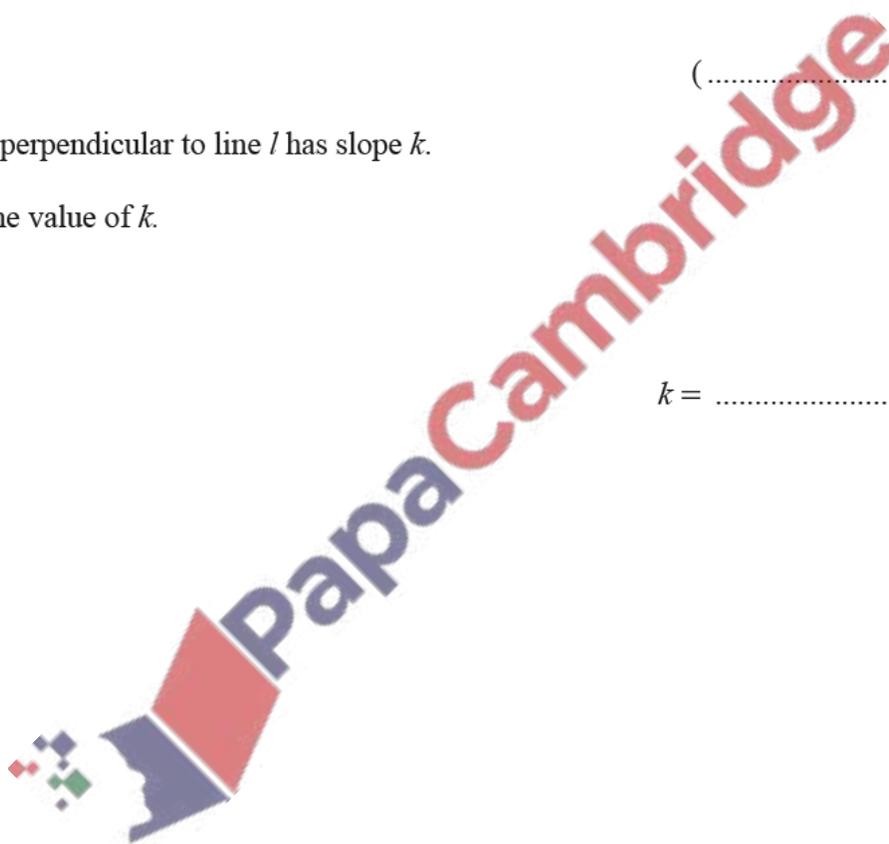
(b) Find the coordinates of the point where line l crosses the x -axis.

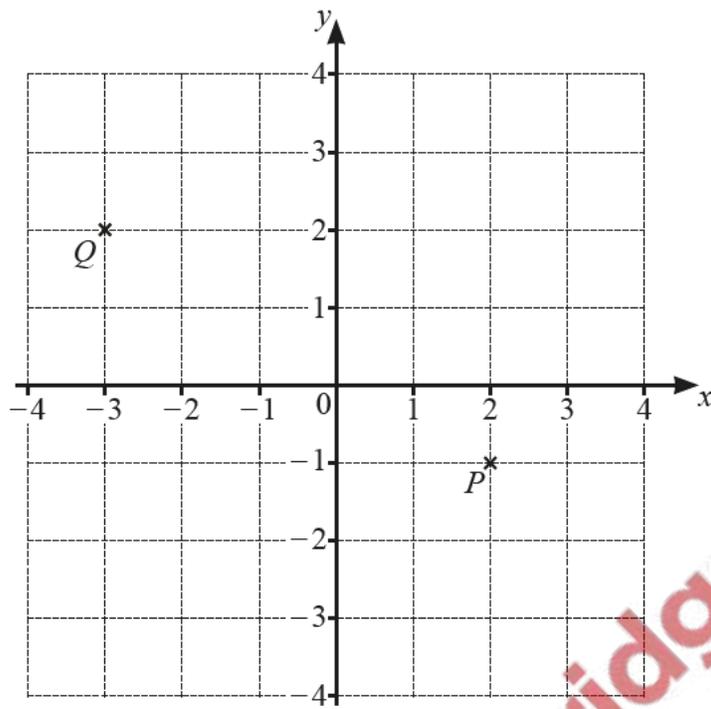
(.....,) [2]

(c) A line perpendicular to line l has slope k .

Find the value of k .

$k =$ [1]





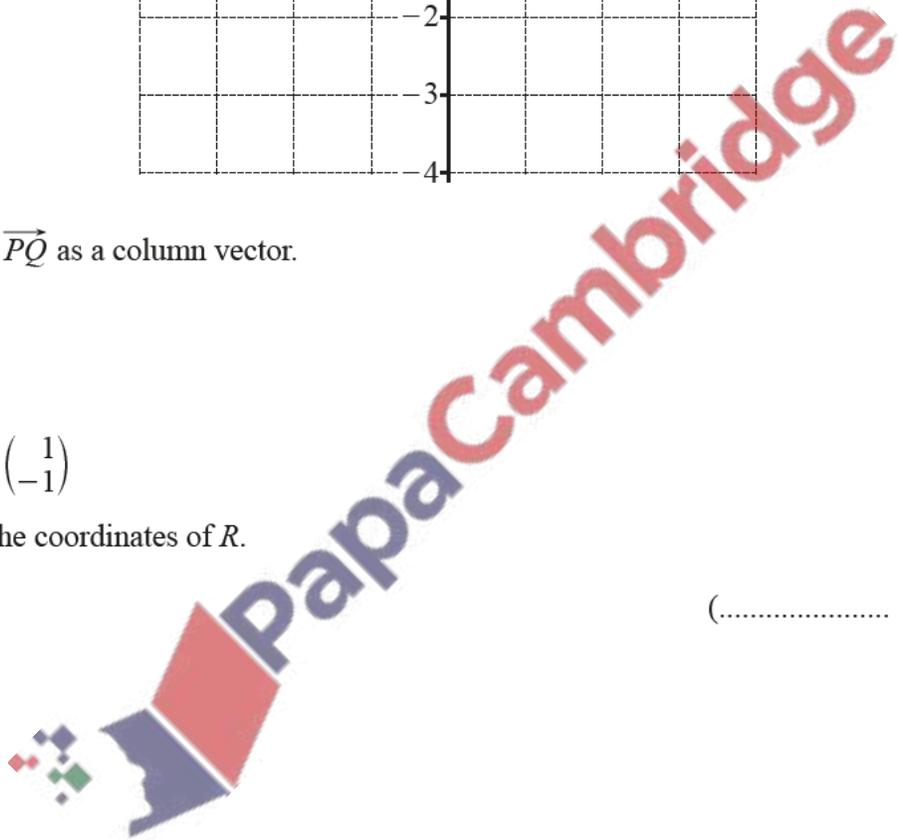
(a) Write \vec{PQ} as a column vector.

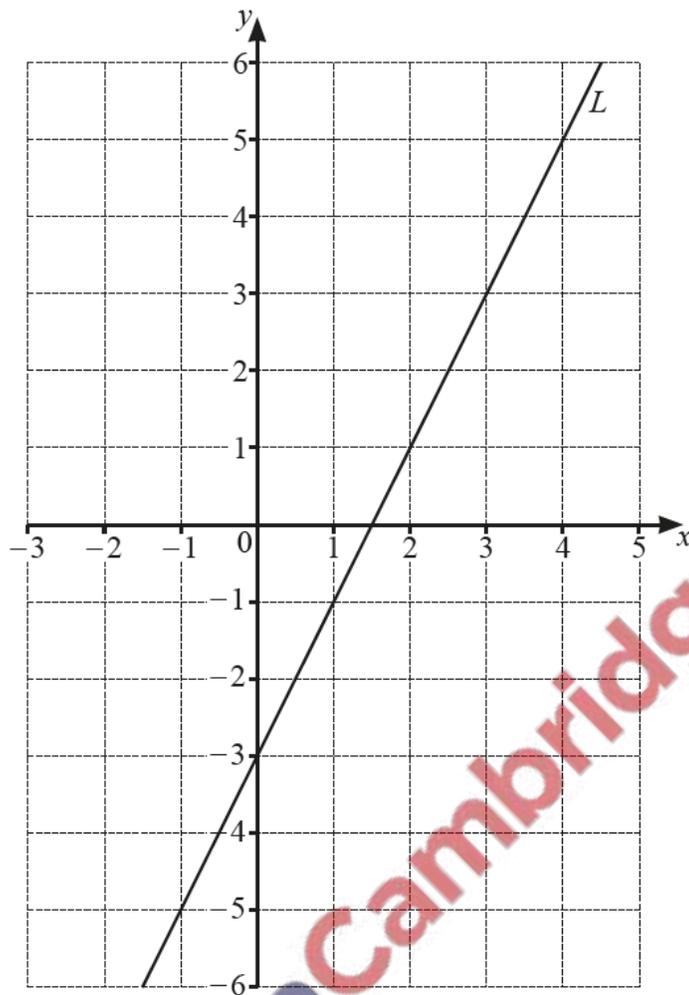
$$\begin{pmatrix} \\ \end{pmatrix} [1]$$

(b) $\vec{QR} = \begin{pmatrix} 1 \\ -1 \end{pmatrix}$

Find the coordinates of R .

$$(\dots\dots\dots, \dots\dots\dots) [1]$$





(a) Find the equation of line L in the form $y = mx + b$.

$y = \dots\dots\dots$ [2]

(b) On the grid, draw a line that is perpendicular to line L .

[1]

5. June/2020/Paper_41/No.8

A rhombus $ABCD$ has a diagonal AC where A is the point $(-3, 10)$ and C is the point $(4, -4)$.

(a) Calculate the length AC .

..... [3]

(b) Show that the equation of the line AC is $y = -2x + 4$.

[2]

(c) Find the equation of the line BD .

..... [4]

