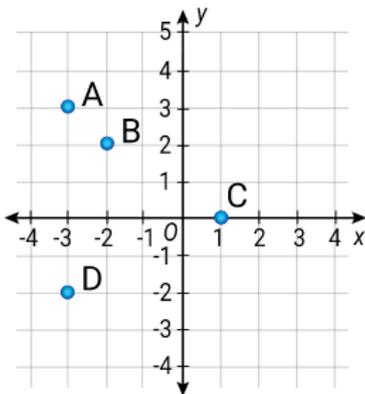


Year 8 Class 17 questions

Q1

Write the coordinates of the points shown.



A ()

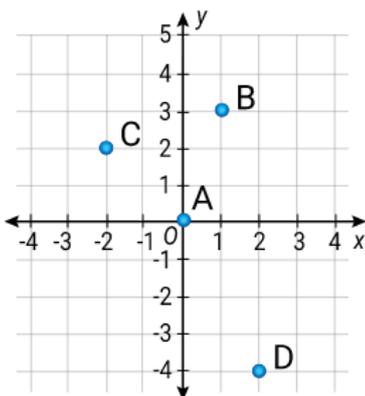
B ()

C ()

D ()

Q2

Write the coordinates of the points shown.



A ()

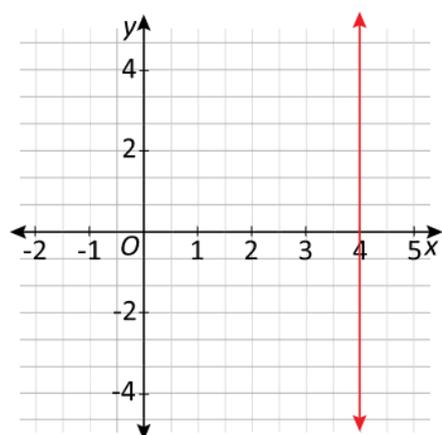
B ()

C ()

D ()

Q3

What is the equation of this line?



$y = 4$

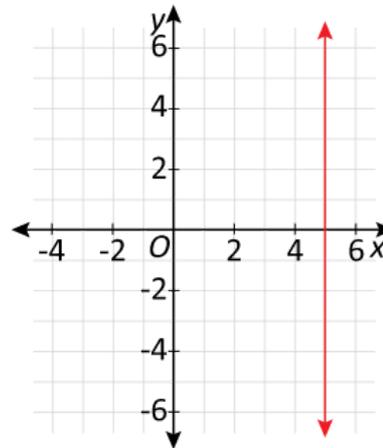
$x = 4$

$y = x + 4$

$x = 4y$

Q4

What is the equation of this line?



$y = 5$

$x = 5$

$y = 5x$

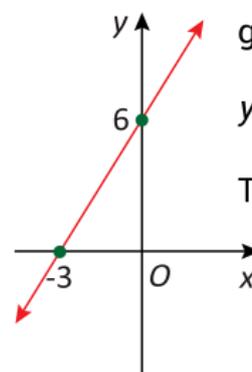
$y = x + 5$

Q5

Where does the line $y = 2x - 6$ cut the y-axis?

(,)

Q6



gradient =

y-intercept =

The line has equation:

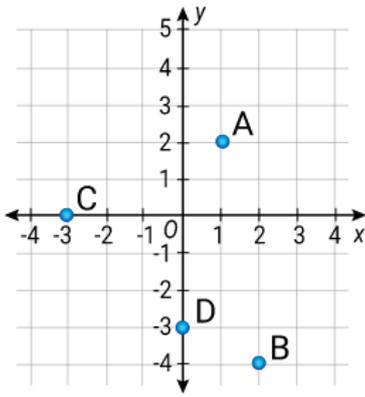
$y = 6x + 2$

$y = 2x + 6$

$y = -3x + 6$

Q7

Write the letters at the point shown.



$(1,2) = \square$

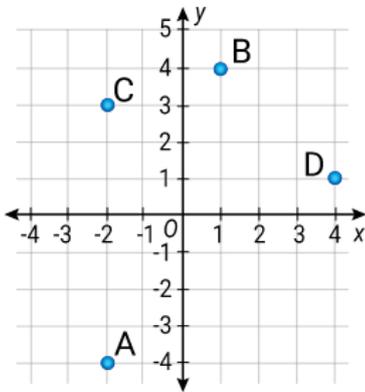
$(-3,0) = \square$

$(2,-4) = \square$

$(0,-3) = \square$

Q8

Write the letters at the point shown.



$(-2,3) = \square$

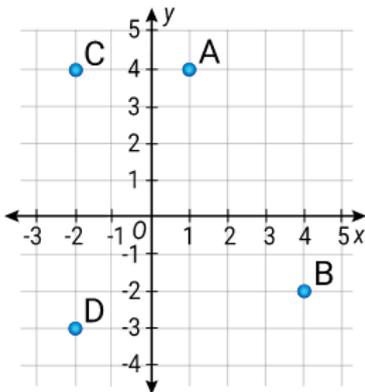
$(4,1) = \square$

$(-2,-4) = \square$

$(1,4) = \square$

Q9

Write the letters at the point shown.



$(1,4) = \square$

$(-2,4) = \square$

$(-2,-3) = \square$

$(4,-2) = \square$

Q10

What is the equation of the vertical line passing through (8, 4)?

$x = 8$

$x = 4$

$y = 4$

$y = 8$

Q11

What is the equation of the horizontal line passing through (-6, 3)?

$x = -6$

$x = 3$

$y = 3$

$y = -6$

Q12

What is the equation of the vertical line passing through (-6, 3)?

$x = -6$

$x = 3$

$y = 3$

$y = -6$

Q13

Which is the steepest line?

$y = 5 - 2x$

$y = -x + 3$

$y = 2x$

$y = 5x$

Q14

Which is the steepest line?

$y = \frac{x}{2}$

$y = \frac{x}{4} + 1$

$y = x$

$y = -\frac{x}{3}$

Q15

Which is the steepest line?

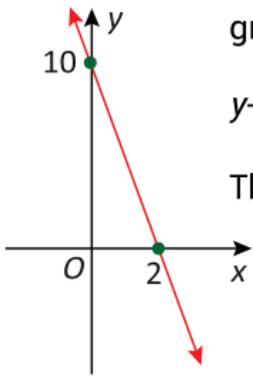
$y = \frac{x}{2}$

$y = 0$

$y = x$

$y = -\frac{x}{3}$

Q16



gradient =

y-intercept =

The line has equation:

$y = 10 - 5x$

$y = 10 + 5x$

$y = 10 + 2x$

Q17

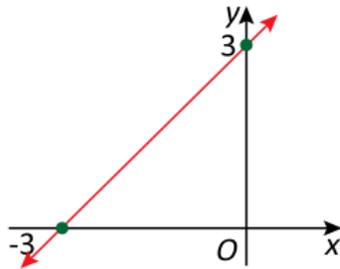
Which equation matches the graph?

$y = 3x$

$y = x + 3$

$y = x - 3$

$y = \frac{x}{3}$



Q18

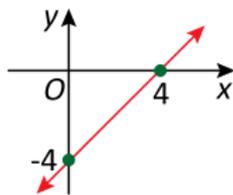
Which equation matches the graph?

$y = x + 4$

$y = x - 4$

$y = -4x$

$y = \frac{x}{4}$



Q19

Choose **ALL** the true facts.

(1,2) lies in the 1st quadrant.

(-7,4) lies in the 4th quadrant.

(-1,2) lies in the 2nd quadrant.

Q20

Choose **ALL** the true facts.

(5,1) lies in the 3rd quadrant.

(-2,5) lies in the 2nd quadrant.

(1,0) lies on the x-axis.

Q21

Choose **ALL** the true facts.

(-6,8) lies in the 4th quadrant.

(0,2) lies on the y-axis.

(-5,-1) lies in the 3rd quadrant.

Q22

Find the equation of the line which is parallel to the y-axis and passes through the point (-7, 5).

$x = 5$

$x = -7$

$y = 5$

$y = -7$

Q23

Find the equation of the line which is parallel to the y-axis and passes through the point (4, -5).

$x = -5$

$x = 4$

$y = 4$

$y = -5$

Q24

Find the equation of the line which is parallel to the x-axis and passes through the point (4, -5).

$x = -5$

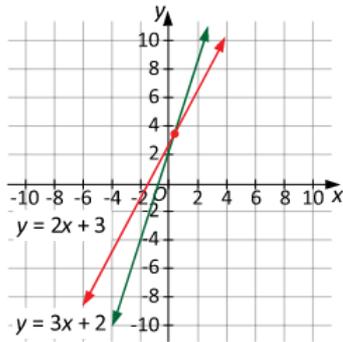
$x = 4$

$y = 4$

$y = -5$

Q25

The graph shows the lines $y = 3x + 2$ and $y = 2x + 3$.



Which line is steeper?

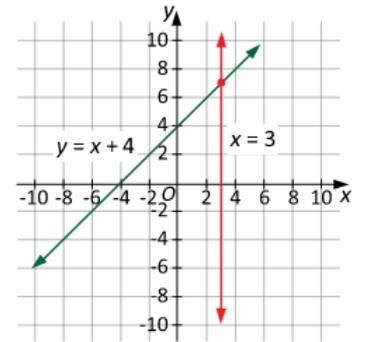
- $y = 3x + 2$ $y = 2x + 3$

Which has y-intercept (0,3)?

- $y = 3x + 2$ $y = 2x + 3$

Q27

The graph shows the lines $x = 3$ and $y = x + 4$.



Which has y-intercept (0,4)?

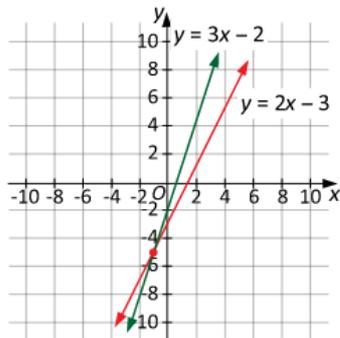
- $x = 3$ $y = x + 4$

Which point lies on both lines?

- (0,4) (7,3) (3,0) (3,7)

Q26

The graph shows the lines $y = 2x - 3$ and $y = 3x - 2$.



Which line is steeper?

- $y = 2x - 3$ $y = 3x - 2$

Which point lies on both lines?

- (-1,-5) (-5,-1) (-1,5) (1,-5)

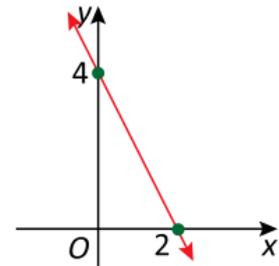
Which line cuts the y-axis at the highest point?

- $y = 2x - 3$ $y = 3x - 2$

Q28

Which equation matches the graph?

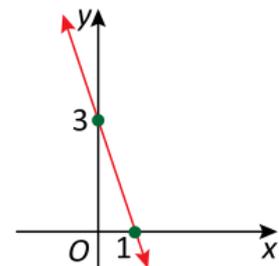
- $y = -2x - 4$
 $y = 2x + 4$
 $y = -2x + 4$
 $y = x^2 - 4$



Q29

Which equation matches the graph?

- $y = x^2 + 3$
 $y = -3x$
 $y = x + 3$
 $y = -3x + 3$



Q30

Which equation matches the graph?

$y = -\frac{x}{3}$

$y = x^2 - 3$

$y = -\frac{3x}{2} + 3$

$y = \frac{3x}{2} - 3$

