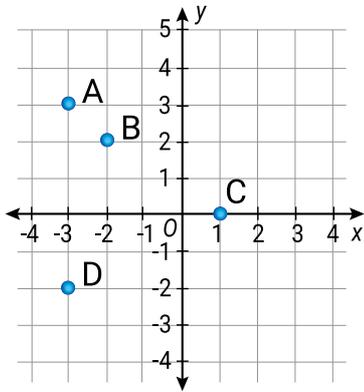


Year 8 Class 17 questions

Q1

Write the coordinates of the points shown.



A()

-3,3

B()

-2,2

C()

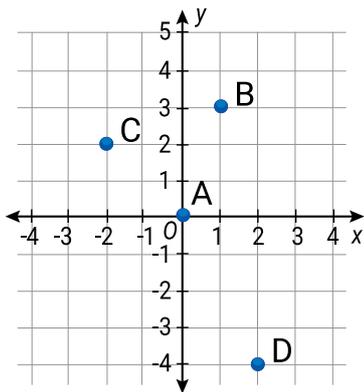
1,0

D()

-3,-2

Q2

Write the coordinates of the points shown.



A()

0,0

B()

1,3

C()

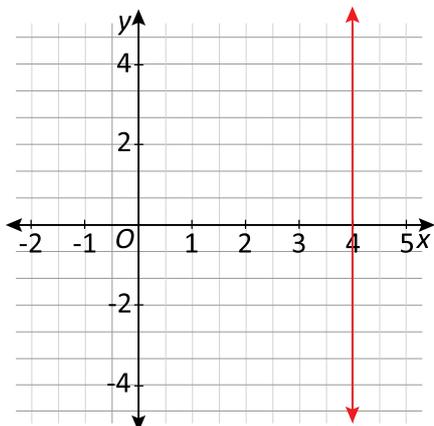
-2,2

D()

2,-4

Q3

What is the equation of this line?



$y = 4$

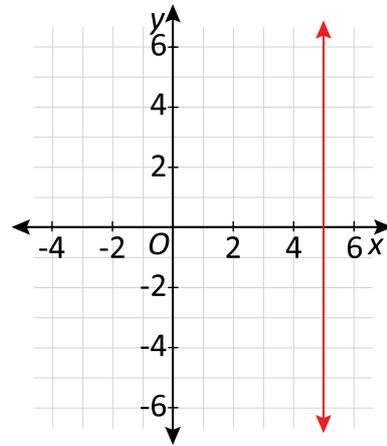
$x = 4$

$y = x + 4$

$x = 4y$

Q4

What is the equation of this line?



$y = 5$

$x = 5$

$y = 5x$

$y = x + 5$

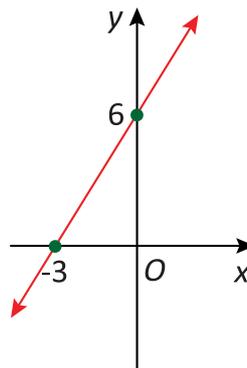
Q5

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

(,)

(0, -6)

Q6



gradient = 2

y-intercept = 6

The line has equation:

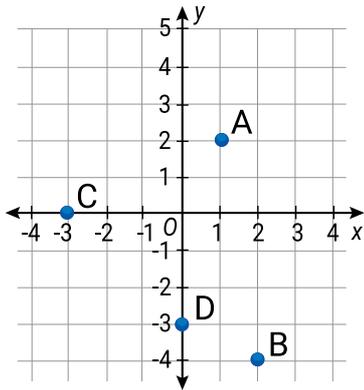
$y = 6x + 2$

$y = 2x + 6$

$y = -3x + 6$

Q7

Write the letters at the point shown.



$(1, 2) = \square$
A

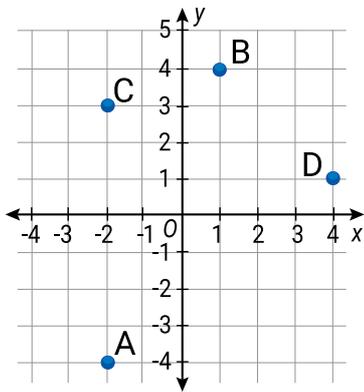
$(-3, 0) = \square$
C

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

$(0, -3) = \square$
D

Q8

Write the letters at the point shown.



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

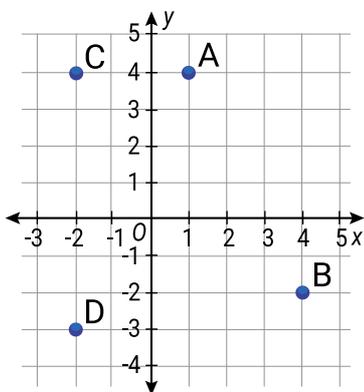
$(4, 1) = \square$
D

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

$(1, 4) = \square$
B

Q9

Write the letters at the point shown.



$(1, 4) = \square$
A

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

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

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

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?

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

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

$y = x$

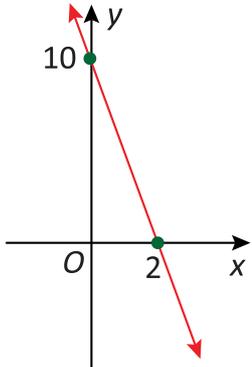
$y = -\frac{x}{3}$

Q15

Which is the steepest line?

- $y = \frac{x}{2}$ $y = 0$
 $y = x$ $y = -\frac{x}{3}$

Q16



gradient = -5

y-intercept = 10

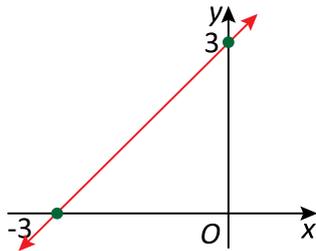
The line has equation:

- $y = 10 - 5x$
 $y = 10 + 5x$
 $y = 10 + 2x$

Q17

Which equation matches the graph?

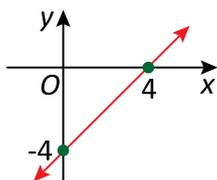
- $y = 3x$
 $y = x + 3$
 $y = x - 3$
 $y = \frac{x}{3}$



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).

- $x = -5$ $x = 4$
 $y = 4$ $y = -5$

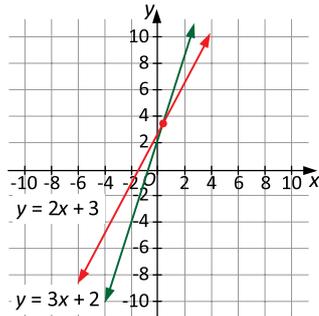
Q24

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?

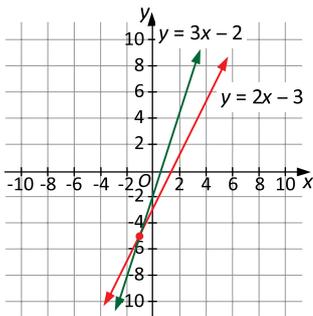
- $y = 3x + 2$ $y = 2x + 3$

Which has y-intercept (0,3)?

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

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?

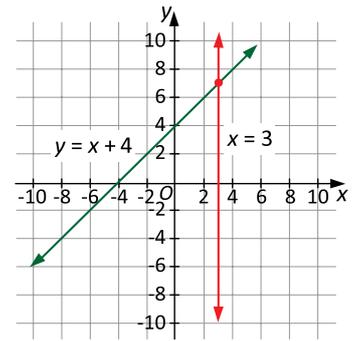
- (-1,-5) (-5,-1) (-1,5) (1,-5)

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

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

Q27

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



Which has y-intercept (0,4)?

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

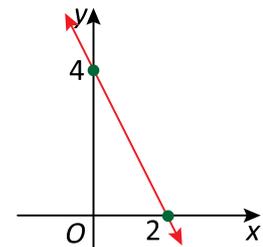
Which point lies on both lines?

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

Q28

Which equation matches the graph?

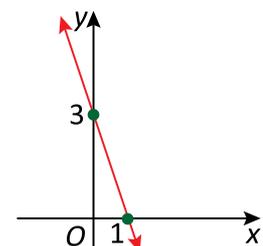
- $y = -2x - 4$
 $y = 2x + 4$
 $y = -2x + 4$
 $y = x^2 - 4$



Q29

Which equation matches the graph?

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



Q30

Which equation matches the graph?

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

$y = x^2 - 3$

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

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

