

Year 9 Class 7 questions

Q1

Find the distance between the points (1,-1) and (-4,2).

(1 d.p.) 5.8

Q2

Find the distance between the points (3,-2) and (5,-9).

(1 d.p.) 7.3

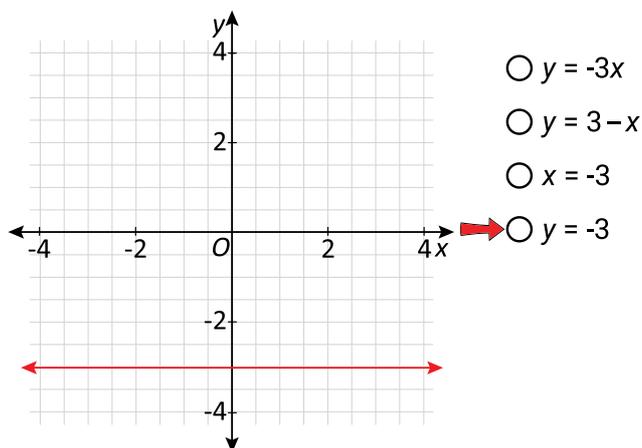
Q3

Is the graph of $x = \frac{1}{3}$ a horizontal or a vertical line?

horizontal line vertical line

Q4

What is the equation of this line?



Q5

Complete the table for $y = 2x - 1$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	-1	1	3	5

Q6

Choose all the points which lie on the line $y = 7 - 3x$.

(6,-11) (2,1)
 (-5,22) (-3,15)

Q7

Which of these points is closest to the origin (0,0)?

(6,2) (3,-5)
 (-4,4) (7,1)

Q8

Which of these points is closest to the origin (0,0)?

(6,4) (-3,7)
 (8,-2) (5,5)

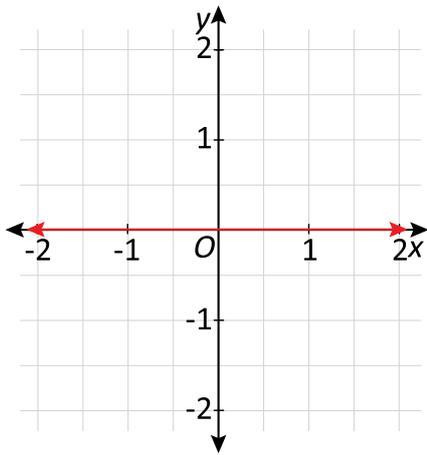
Q9

Which of these points is closest to the origin (0,0)?

(9,-3) (10,2)
 (-7,5) (8,4)

Q10

What is the equation of this line?



- $y = x$
- $x = 0$
- $y = 0$
- $y = 1$

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 $(-6, 3)$?

- $x = -6$
- $x = 3$
- $y = 3$
- $y = -6$

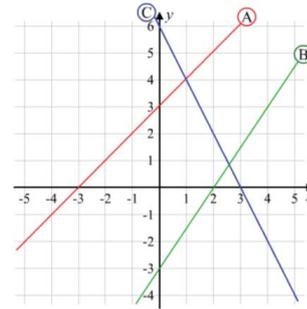
Q13

Complete the table for $y = 6 - 2x$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

6 4 2 0

Which is the graph of $y = 6 - 2x$?



- A
- B
- C

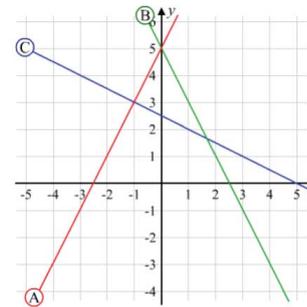
Q14

Complete the table for $y = 5 - 2x$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5 3 1 -1

Which is the graph of $y = 5 - 2x$?



- A
- B
- C

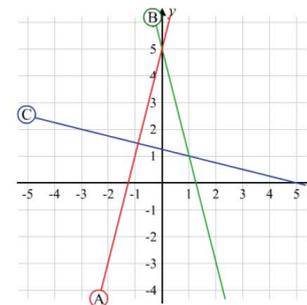
Q15

Complete the table for $y = 5 - 4x$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5 1 -3 -7

Which is the graph of $y = 5 - 4x$?



- A
- B
- C

Q16

Choose all the points which lie on the line $5x + y = 8$.

- (3,-7) (-1,13)
 (-3,21) (2,-2)

Q17

Choose all the points which lie on the line $x - 4y + 7 = 0$.

- (-3,0) (13,5)
 (5,3) (1,2)

Q18

Choose all the points which lie on the line $x + 3y - 9 = 0$.

- (0,3) (-6,5)
 (6,-1) (3,2)

Q19

A triangle has vertices A(-2,-1), B(2,2) and C(1,-5).

Find the length of AB. 5

Find the length of AC. 5

Find the length of BC. (1 d.p.) 7.1

What type of triangle is ABC?

- equilateral scalene isosceles

Q20

A triangle has vertices A(-2,-1), B(4,7) and C(-8,9).

Find the length of AB. 10

Find the length of AC. (1 d.p.) 11.7

Find the length of BC. (1 d.p.) 12.2

What type of triangle is ABC?

- equilateral isosceles scalene

Q21

A triangle has vertices A(-2,-1), B(4,7) and C(-8,9).

Find the length of AB. 10

Find the length of AC. (1 d.p.) 11.7

Find the length of BC. (1 d.p.) 12.2

What type of triangle is ABC?

- equilateral isosceles scalene

Q22

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

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

Q23

Find the equation of the line which is parallel to the x -axis and passes through the point (-2,-6).

- $x = -6$ $x = -2$
 $y = -6$ $y = -2$

Q24

Find the equation of the line which is parallel to the x-axis and passes through the point (5,-8).

- $x = -8$ $x = 5$
 $y = 5$ $y = -8$

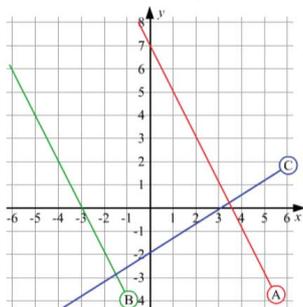
Q25

Complete the table for $y + 2x = 7$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

7 5 3 1

Which is the graph of $y + 2x = 7$?



- A
 B
 C

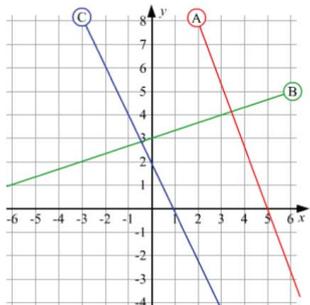
Q26

Complete the table for $y = \frac{x}{3} + 3$.

x	-3	0	3	6
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

2 3 4 5

Which is the graph of $y = \frac{x}{3} + 3$?



- A
 B
 C

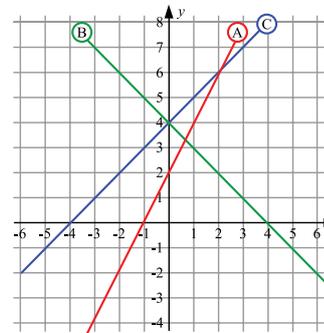
Q27

Complete the table for $y - x = 4$.

x	0	1	2	3
y	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4 5 6 7

Which is the graph of $y - x = 4$?



- A
 B
 C

Q28

Which lines pass through the point (-2,4)?

- $y = -2x$ $y = 3x + 11$
 $y = 2 - x$ $2x - 3y + 16 = 0$

Q29

Which lines pass through the point (5,-3)?

- $y = 7 - 2x$ $2x + 7y + 11 = 0$
 $y = 4x - 21$ $3x + 7y - 1 = 0$

Q30

Which lines pass through the point (4,-8)?

- $y = 4x - 22$ $3x - 8y - 76 = 0$
 $y = 4 - 3x$ $3x + 4y + 18 = 0$