



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Algebra and Geometry**

**Class: 7**

**Date: 16.05.20**

**Duration: 40 min**

**Worksheet 24**

**Full Marks: 15**

## GRAPHS

**Choose the Correct options:**

1. Which graph is parallel to x-axis?

- (a)  $y=x+1$
- (b)  $y=2$
- (c)  $x=3$
- (d)  $x=2y$

2. Which point lies on x-axis?

- (a) (3, 2)
- (b) (-3, 2)
- (c) (2, 0)
- (d) (-1,-2)

3. Which point lies on y-axis?

- (a) (1, 3)
- (b) (0, 3)
- (c) (5, 2)
- (d) (-2,-3)

4. Which point lies to the right of y-axis?

- (a) (0, 3)
- (b) (-2,-1)
- (c) (3, 5)
- (d) (-3,-2)

5. Which line is parallel to  $y=x-2$ ?

- (a)  $y=2x+1$
- (b)  $2y=2x-6$
- (c)  $2y=x+7$
- (d)  $y=3x+1$

6. Which point lies on the left of y-axis?

- (a) (2, 0)
- (b) (-2,-4)
- (c) (5, 2)
- (d) (3, 6)

7. Which point lies in IV quadrant?

- (a) (-3,-4)
- (b) (2,-4)
- (c) (-2, 3)
- (d) (0, 1)

8. Which point lies above x-axis?

- (a) (-1, 2)
- (b) (2, 0)
- (c) (-1,-5)
- (d) (0,-3)

9. A line has an equation of  $y = -3x + 8$ . What is the y-intercept of the line? Please enter your answer as a coordinate (x, y).

- (a) (0, -3)
- (b) (0, 3)
- (c) (0, -8)
- (d) (0, 8)

10. A line has an equation of  $y = -5x - 10$ . What is the gradient of the line?

- (a) -5
- (b) -10
- (c) 5x
- (d) 10

11. What does "b" represent in  $y = a + bx$ ?

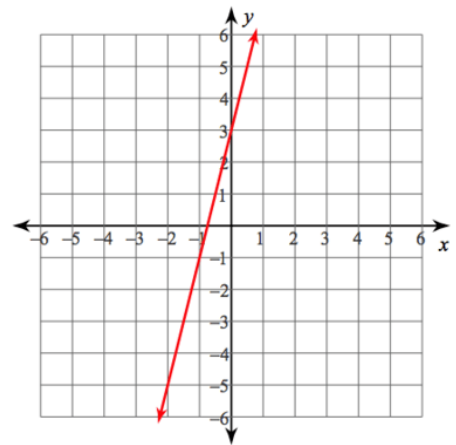
- (a) y-intercept
- (b) gradient
- (c) x-coordinate
- (d) y-coordinate

12. What does "a" represent in  $y = a + bx$ ?

- (a) y-intercept
- (b) x-coordinate
- (c) x-intercept
- (d) gradient

13. Look at the graph. Write down the equation for the line.

- (a)  $y = 3 - x$
- (b)  $y = 3 + 4x$
- (c)  $y = 3 + \frac{1}{4}x$
- (d)  $y = 3 - 4x$



14. If  $b=3$  and  $a=6$ , what is the correct equation?

- (a)  $y = 3 - 6$
- (b)  $y = -6 + 3x$
- (c)  $y = 6 + 3x$
- (d)  $y = 3 + 6x$

15. Write the equation for this graph?

- (a)  $y = 60 - 10x$
- (b)  $y = 60 - 5x$
- (c)  $y = 60 - \frac{1}{2}x$
- (d)  $y = 60 - x$

