ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra and Geometry **Class: 7** **Date: 16.05.20**

Duration: 40 min **Worksheet Solutions 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

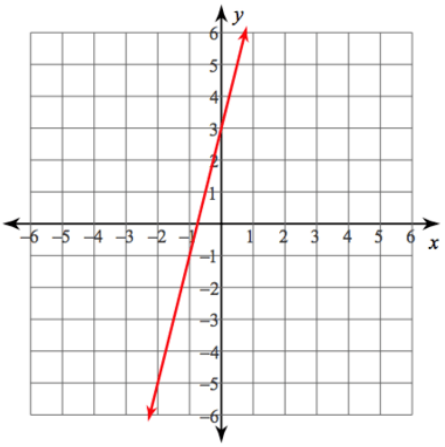
11. What does "b" represent in y = a + bx?

(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.

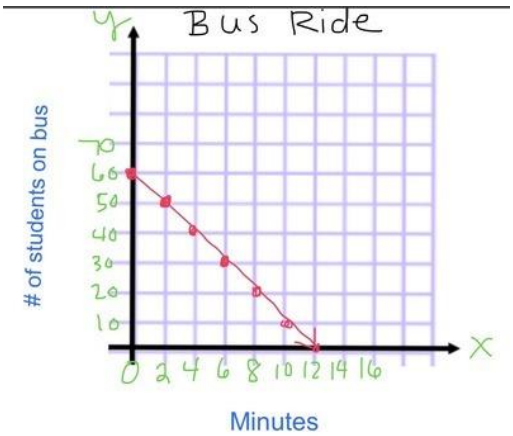


(a) y = 3 - x
(b) y = 3+ 4x
(c) y = 3+ 1/4 x
(d) y = 3 - 4x

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 - 1/2 x
(d) y = 60 - x