ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra and Geometry   **Class: 7**   **Date: 05.07.21**
Duration: 40 min   Worksheet Solutions 33   **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)

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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?
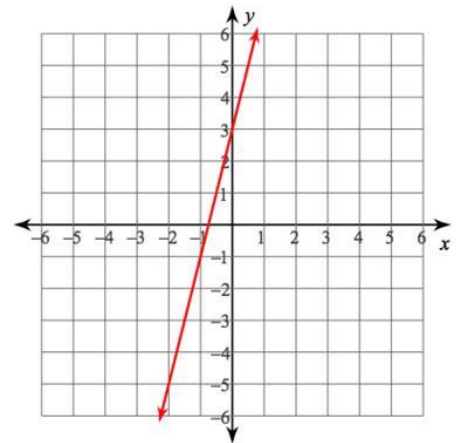   (a) y-intercept
   (b) gradient
   (c) x-coordinate
   (d) y-coordinate
12. What does "a" represent in y = a + bx?
   (a) y-intercept
   (b) x-coordinate
   (c) x-intercept
   (d) gradient
13. Look at the graph. Write down the equation for the line.
   (a) y = 3 - x
   (b) y = 3+ 4x
   (c) y = 3+ 1/4 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

Bus Ride

# of students on bus

Minutes

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