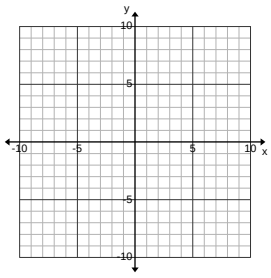
Horizontal and Vertical Lines

Name_____ **Period**_____ **Date**_____

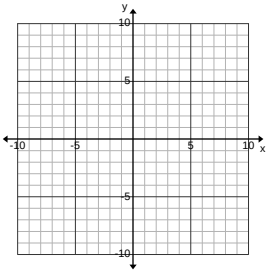
1. True or False. The graph of y = 3 is a vertical line.

2. Sketch the graph of y = -3.



3. On a line, if each x coordinate is 2, what is the equation of this line?

4. Plot the points (2, 7) and (-4, 7). What is the equation of the line?



5. At what point do the graphs of x = -4 and y = 6 intersect?

6. The slope of the line x = 4 is _____.

   a. positive b. negative c. zero d. undefined

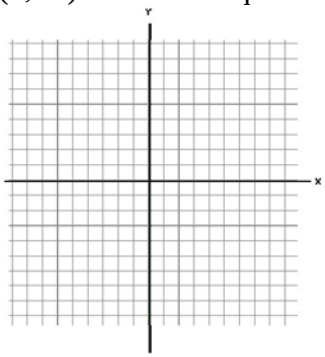
7. The slope of the line of y = -3 is _____.

   a. positive b. negative c. zero d. undefined

8. Write the equation of the line passing through the points (2, 3) and (2, 5).

9. Write the equation of the line passing through the points (6, -2) and (9, -2).

10. Sketch the horizontal line and vertical line that pass through (3, -4). Write an equation for each.

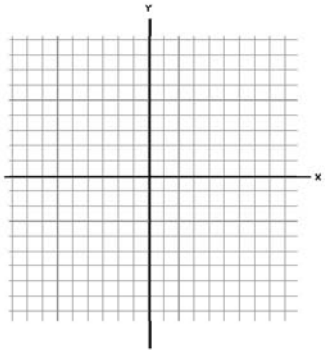


11. Write the equation of the line passing through (0, 0) and (9, 0). Put your answer in standard form.

12. List 3 points on the graph of y = 5.

13. List 3 points on the graph of x = 2.

14. Graph the equation x = 2



.

15. Which of the following equations has an undefined slope?

a. y = 2x b. y = 2 c. x = 4 d. 2x + y = 0

16. What is the equation of the horizontal line passing through (4, -2)?

a. x = 4 b. y = -2 c. x = -2 d. y = 4

17. What is the equation of the vertical line passing through (-3, -6)?

18. What is the equation of the horizontal line passing through (2, -1/2)?

19. Which equation is represented by the graph?