

Algebra I, Chapter 5 Practice Test**5.3.1: I can write and graph linear equations using slope-intercept form.**

1. (1 point)

$$y = -1.3x + 6.7$$

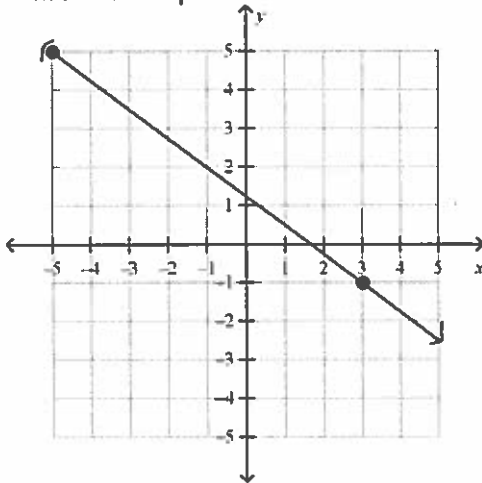
- a. The slope is -1.3 and the y -intercept is 6.7 .
b. The slope is 1.3 and the y -intercept is -6.7 .
c. The slope is -6.7 and the y -intercept is -1.3 .
d. The slope is 6.7 and the y -intercept is -1.3 .

2. (1 point)

$$m = 5, b = -10$$

3. (2 points)

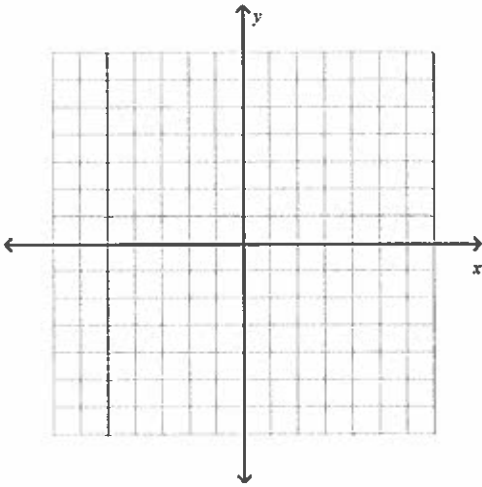
What is the equation for the line below (in slope-intercept form)?



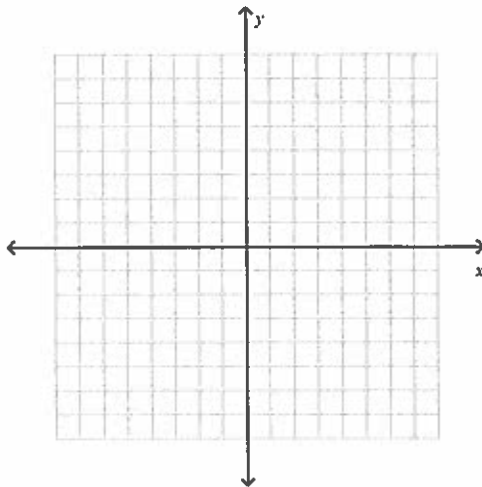
4. (3 points)

Write the equation for the line containing $(1, 7)$, $(7, 2)$. Make sure your answer is in slope-intercept form.

5. (2 points)

Graph the line formed from the equation $y = 3x - 2$ 

6. (3 points)

Graph the following equation: $y - 5 = -\frac{7}{6}(x + 5)$. Write this in slope-intercept form first!

7. (1 point)

Write the equation with the following information in point-slope form.

 $(3, 5); m = -9$

a. $y + 5 = -9x + 3$

b. $y - 5 = -9(x - 3)$

c. $y + 5 = -9(x - 3)$

d. $y - 5 = -9(x + 3)$

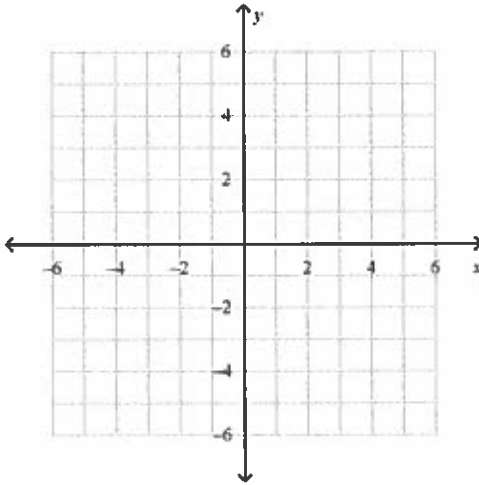
5.5.1: I can graph linear equations using intercepts.

8. (1 point)

What is the slope of any horizontal line?

- a. $1/2$ c. Undefined
b. Zero d. Not enough information

9. (1 point)

Graph the equation $y = 3$. Tell whether the graph is horizontal, vertical, or oblique.

10. (2 points)

Identify the x - and y -intercepts of the following equation written in standard form: $5x + 6y = 120$

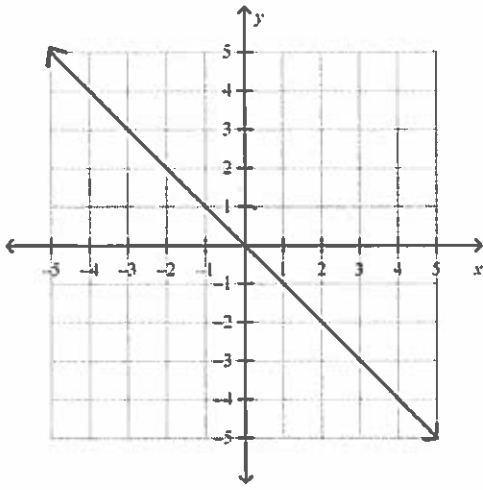
11. (2 points)

The video store rents DVDs for \$4.00 each and video games for \$2.00 each. Write an equation in standard form for the number of DVDs d and video games g that a customer could rent with \$16.

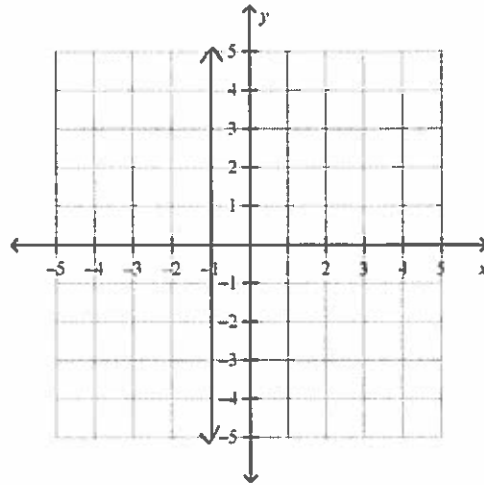
- a. $4d + 2g = 16$ c. $4d = 2g + 16$
b. $4 + 2 = d$ d. $4g + 2d = 16$

12. (1 point)
Which of the following graphs is represented by $x = -1$?

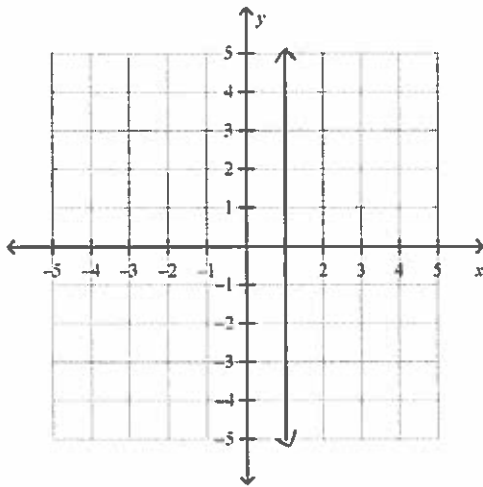
a.



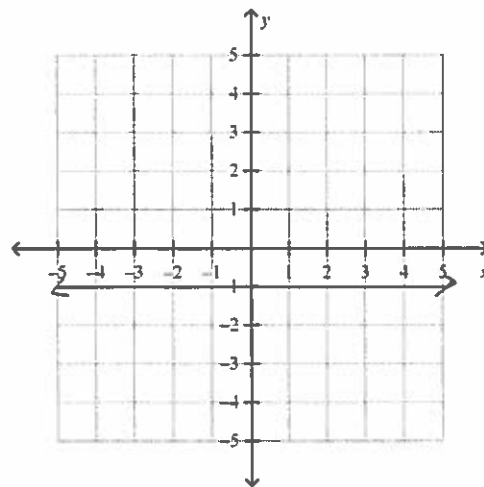
c.



b.

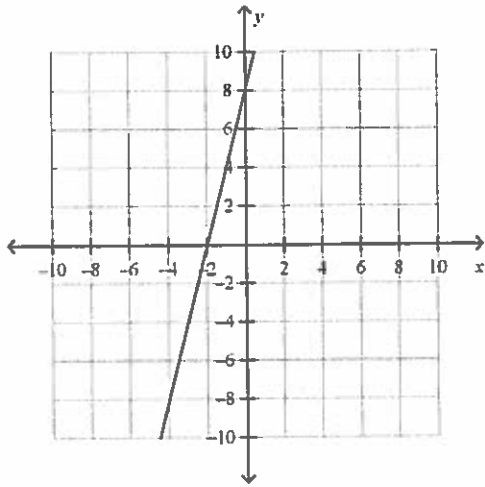


d.

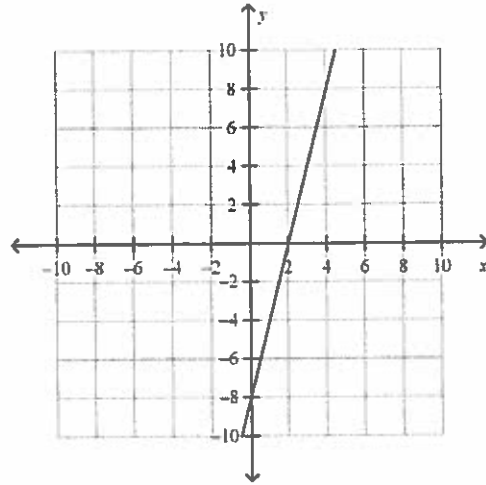


13. (3 points)
Which of the following is the graph of the equation $8x + 2y = 16$?

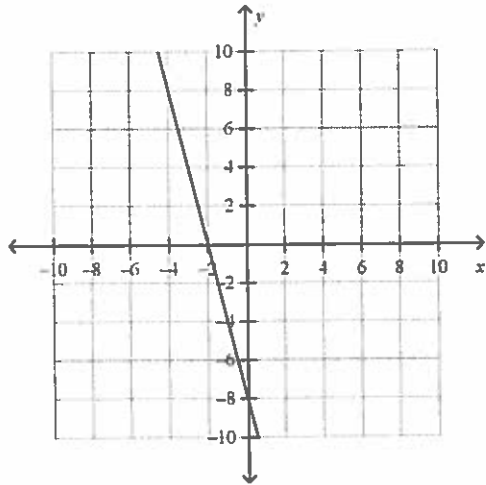
a.



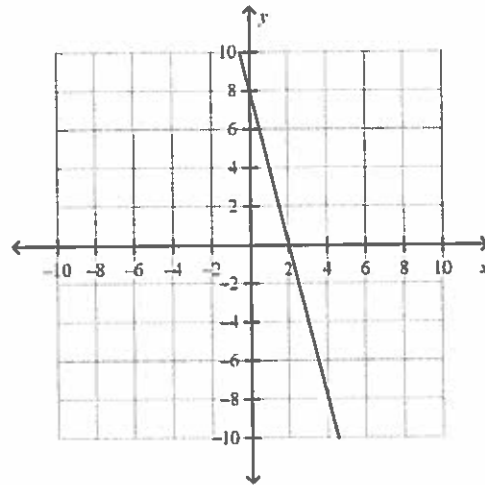
c.



b.



d.



14. (1 point)
What is the rate of change from 2:30 to 6:00?

Time	2 30	4 00	4 30	6 00
Amount of Snow (in.)	$1\frac{1}{2}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$

15. (1 point)
Using the graph below, determine between which two points was the rate of change the greatest. What is that rate of change? Remember that the number of poodles are in the **thousands**.

15. (3 point)
Using the graph below, determine between which two points was the rate of change the greatest. What is that rate of change? Remember that the number of poodles are in the thousands.

