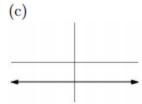
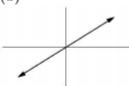
Which of these graphs has a slope of zero?

(a)

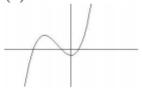




(b)

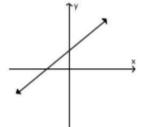


(d)



Question 2

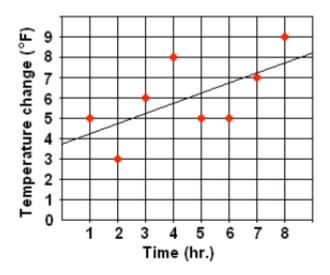
Which statement is true about the graph?



- (a) m < 0, b > 0(c) m > 0, b > 0

- (b) m < 0, b < 0
- (d) m > 0, b < 0

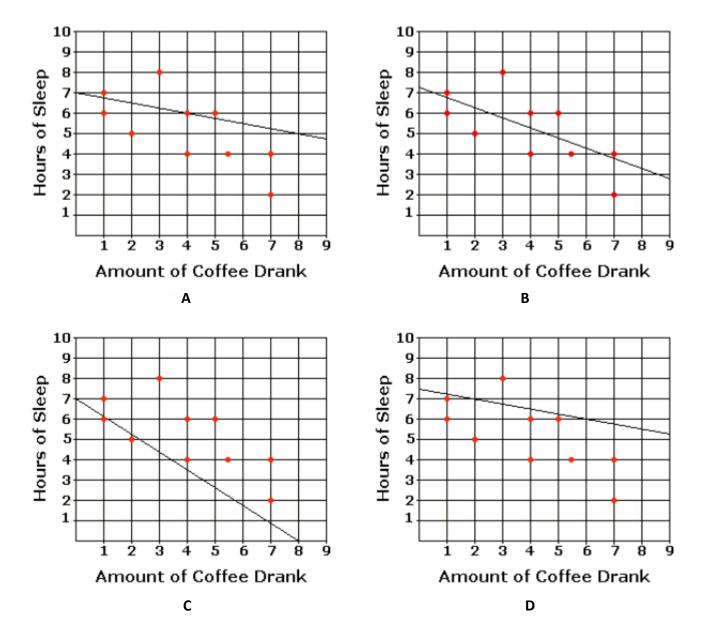
Greg recorded the temperature change over a course of 8 hours.



Use the given line of best fit to approximate the rate of change relative to the scatter plot above.

- A. 1 degree/hour
- **B.** 1/2 degree/hour
- C. 3 3/4 degrees/hour
- D. 2 degrees/hour

Which is the best line of best fit?



Question 5

The graph of the equation y = -3x - 5 has the following characteristics:

- (a) slope = 5, y-int = 3
- (b) slope = 3, y-int = 5
- (c) slope =-3, y-int =5
- (d) slope = -3, y-int = -5

Question 6

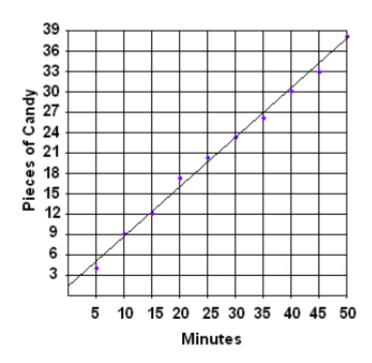
The slope of the line parallel to the line $y = -\frac{1}{2}x + 3$ is:

- (a) 2
- (b) 1/2 (c) -1/2 (d) -2

For the linear equation 3x + 4y = 12, the x-intercept is

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

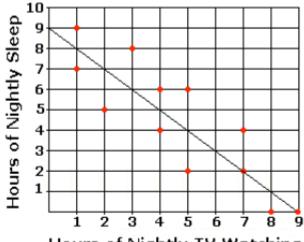
Question 8



Which of the following equations represents the line that is drawn above?

- **A.** y = 0.72x 1.4
- **B.** y = 0.72x + 1.4
- **C.** y = -0.72x + 1.4
- **D.** y = -0.72x 1.4

Write the equation for the line of best fit for the scatter plot below.



Hours of Nightly TV Watching

A.
$$y = -3/4x + 9$$

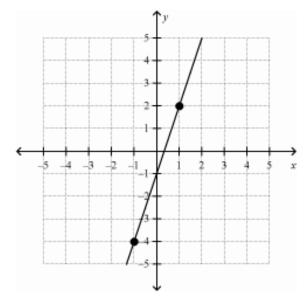
B.
$$y = -x + 9$$

C.
$$y = -\frac{1}{2}x + 9$$

D.
$$y = -\frac{5}{4x} + 9$$

Question 10

Write the slope-intercept form of the equation for the line.



a.
$$y = 3x - 1$$

b.
$$y = -3x - 1$$

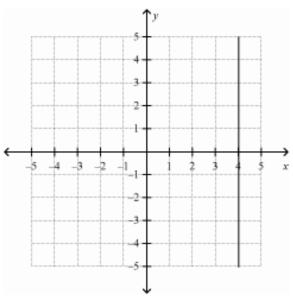
c.
$$y = \frac{1}{3}x + 1$$

d.
$$y = \frac{1}{3}x - 1$$

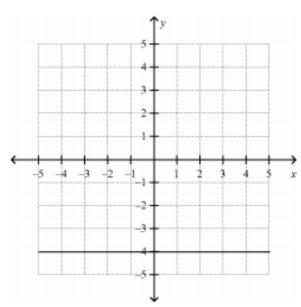
Graph the equation

x = -4

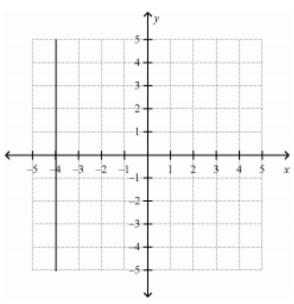
a.



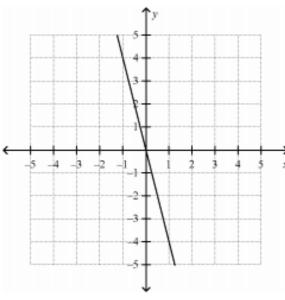
c.



b.

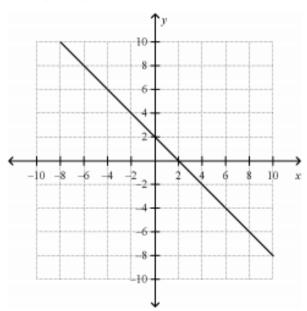


d.

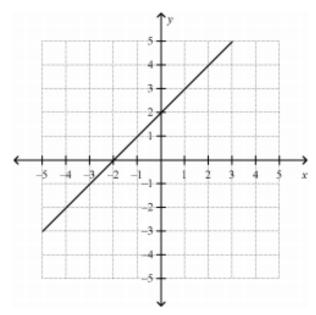


$$y + 2 = -(x - 4)$$

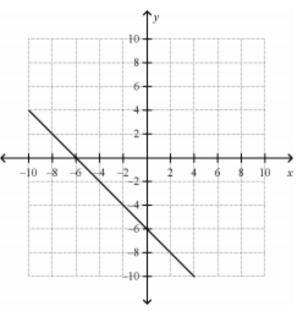
а



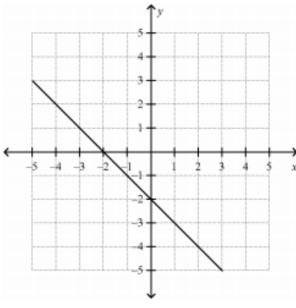
c.



b.



d.



Betsy observed the punch volume at the beginning of school party. The information is in the table below.

Minutes	Volume of Punch (L)
1	50
2	46
3	41
4	43
5	38
6	34
7	37
8	30
9	28
10	27

If the best-fit equation is y = -2.485x + 51.067, what will the approximate volume of punch be at the 13 minute mark?

- **A.** 18.762 L
- **C.** 17.973 L
- **B.** 23.733 L
- **D.** 16.764 L

Question 14

For the linear equation 3x + 4y = 12, the x-intercept is

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

Question 15

The lines y = 2x + 3 and y = ax + 5 are perpendicular if $a = \underline{\hspace{1cm}}$.

(a) 2 (b) $\frac{1}{2}$ (c) -2 (d) $-\frac{1}{2}$