NAME _____

1. Solve the following equation:

$$-16 + 5n = -7(-6 + 8n) + 3$$

2. What is the range of the following data?
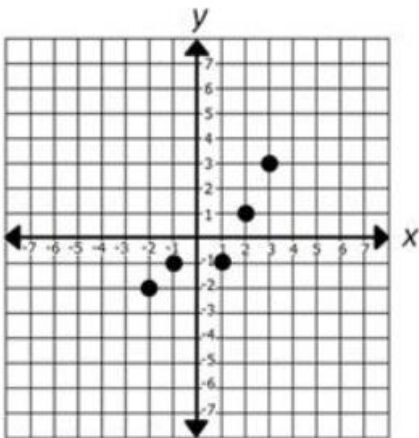
3. Which is the equation for the line that has a slope of 2 and a y-intercept of 6?

A $y = 6x + 2$

B $y = 6x + 6$

C $5y = 10x + 29$

D $4y = 8x + 24$

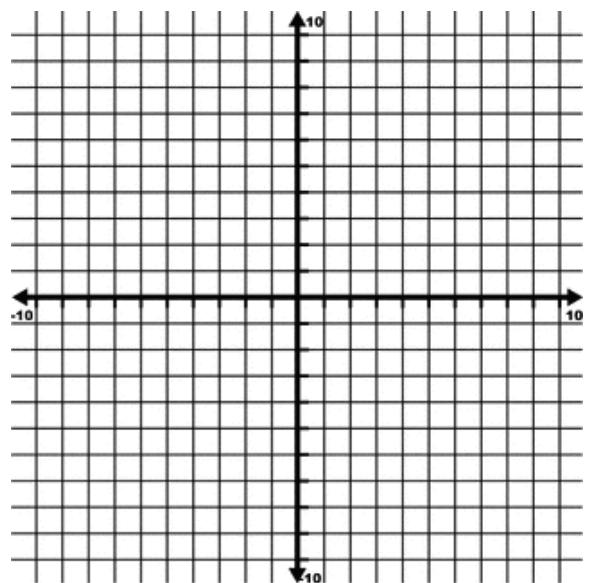4. What is the slope of a line which passes through (6,7) and (-4, -3)?

5. Find the slope and the y-intercept from the following equation (remember, the equation must be in y=mx+b form).

$$x - 5y = 10$$

Slope:_____   Y-intercept:_____

6. Draw a graph of the equation

$$y = \frac{1}{3}x + 4$$

7. What is the value of the following:

$$2\sqrt{40} - 10\sqrt{90}$$

A

x	y
10	20
1	2
12	6
20	10

B

x	y
4	6
8	11
-4	-4
0	1

C

x	y
7	35
3	9
-3	-30
-7	-56

D

x	y
3	6
9	2
18	1
6	3

8. The information below tells the number of students in a class compared to the number of students who passed a test in that class. What would be the line of best fit equation for this data? (Use Desmos)

Number of students, m	Number of students passing a test, p
18	15
24	18
26	19
30	21

9. Which table represents an inverse variation?

10. Solve the system of equations using substitution or elimination.

$$\begin{cases} x - 5y = 20 \\ x + 3y = -4 \end{cases}$$