

1. False
2. Slope - is the "angle" of a line defined as the rise \div run of a line.
3. Yes
4. Ordered pair - (x, y) point on the coordinate plane.
5. Quadrant III

6. $m = -\frac{2}{3}$ $(2, 3), (-1, 5)$

$$m = \frac{3 - 5}{2 - (-1)} = \frac{-2}{3}$$

7. $m = -\frac{1}{4}$ $(-4, 7), (12, 3)$

$$m = \frac{7 - 3}{-4 - 12} = \frac{4}{-16} = -\frac{1}{4}$$

8. $m = -\frac{5}{2}$ $(6, -1), (2, 9)$

$$m = \frac{-1 - 9}{6 - 2} = \frac{-10}{4} = -\frac{5}{2}$$

9 $m = -110$ $(\frac{1}{2}, 4), (\frac{3}{5}, -7)$

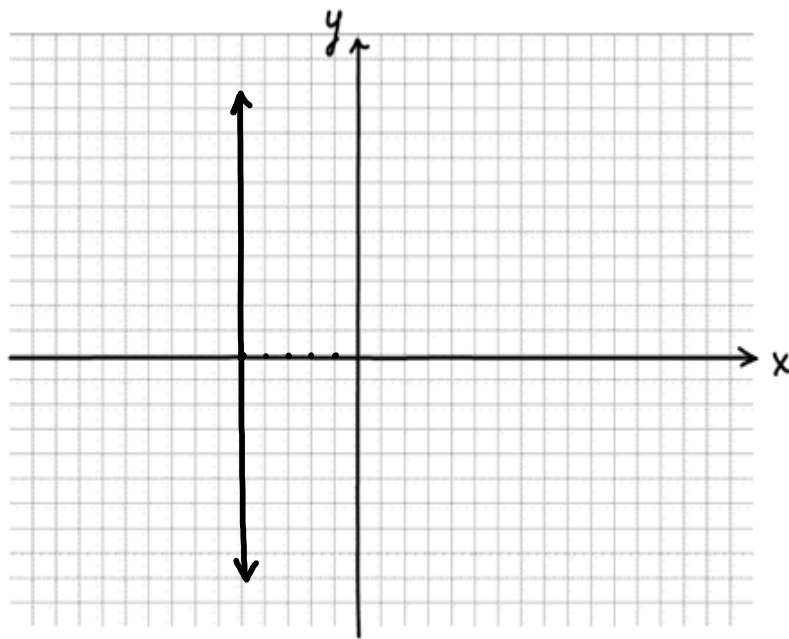
$$m = \frac{4 - (-7)}{(\frac{1}{2} - \frac{3}{5})} = \frac{11}{(-\frac{1}{10})}$$

$$m = \frac{11}{(-\frac{1}{10})} = 11 \div -\frac{1}{10} = -110$$

10. $m = \frac{5}{3}$

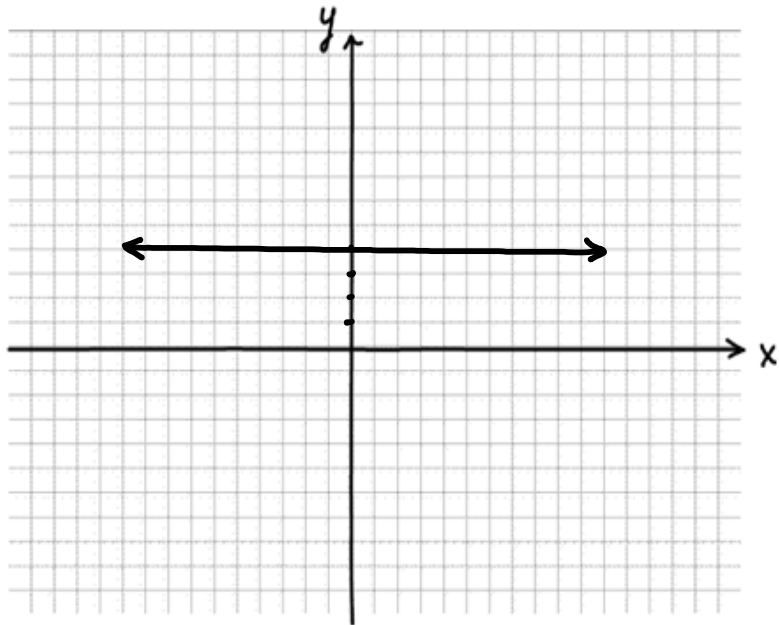
11.

$$x = -5$$



12.

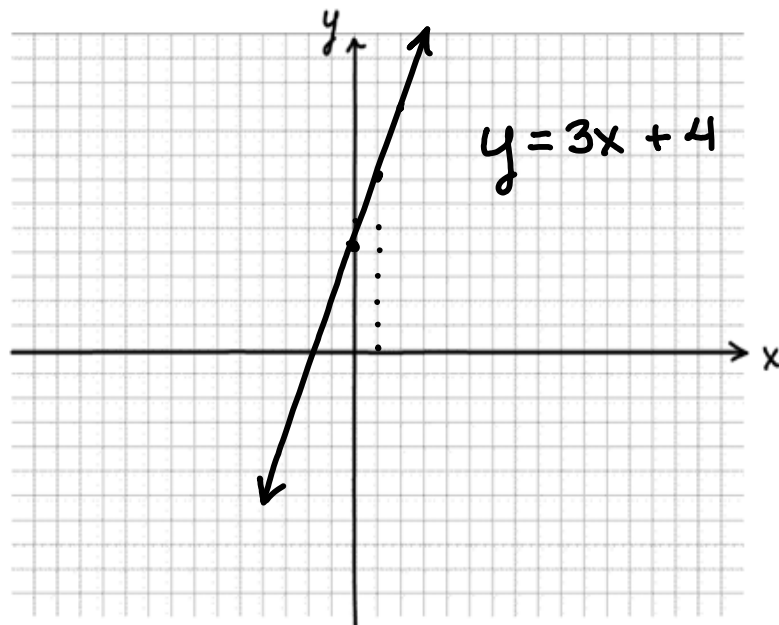
$$y = 4$$



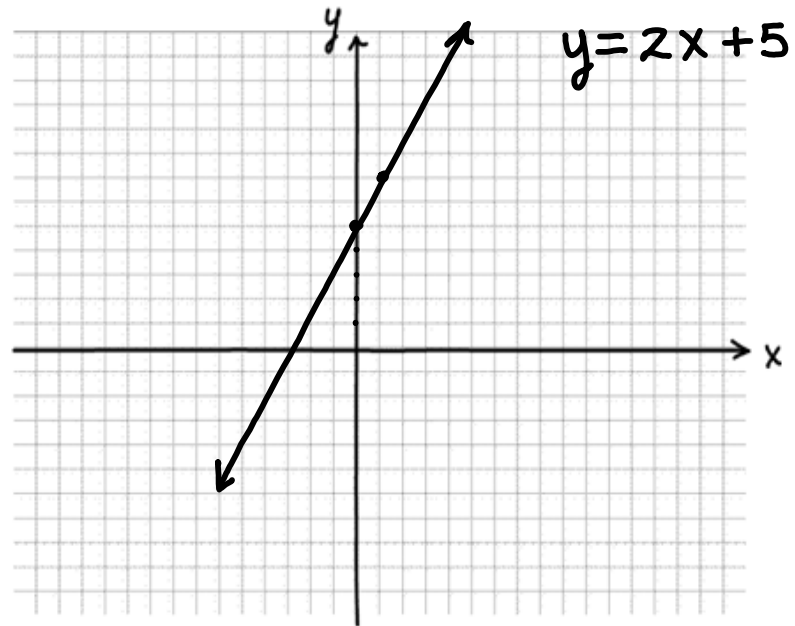
13.

	<u>x</u>	<u>y</u>	
(1, 7)	1	7	→ $y = 3(1) + 4$
(2, 10)	2	10	→ $y = 3(2) + 4$
(3, 13)	3	13	→ $y = 3(3) + 4$

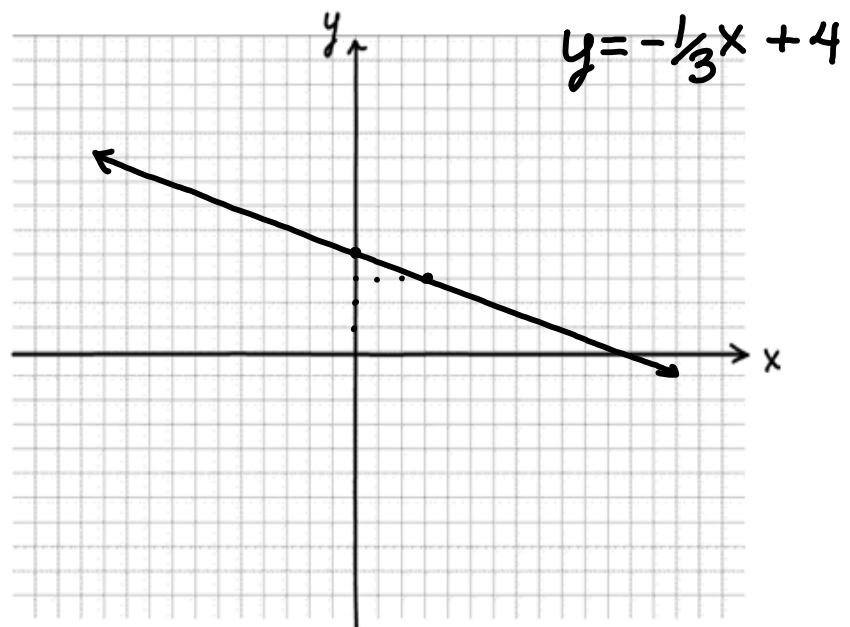
$$y = 3x + 4$$



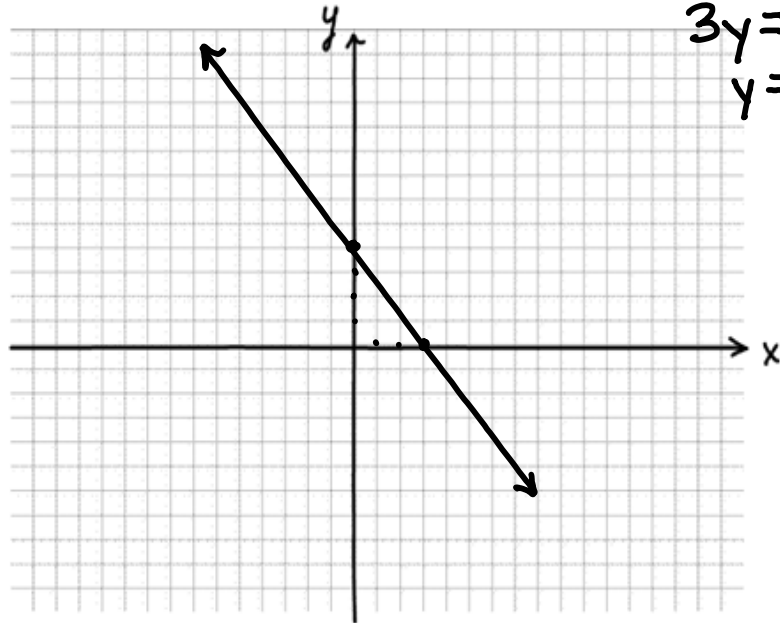
14.



15.

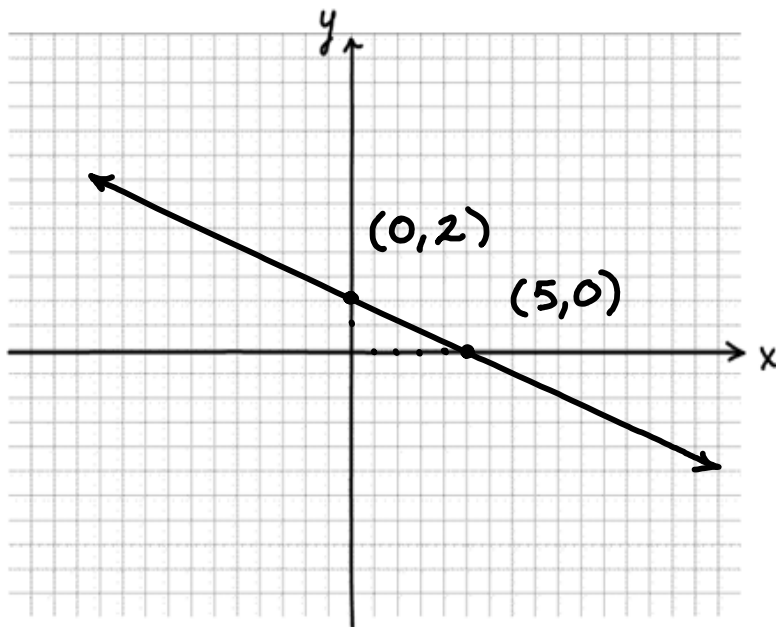


16.



$$\begin{aligned}4x + 3y &= 12 \\3y &= -4x + 12 \\y &= -\frac{4}{3}x + 4\end{aligned}$$

17.



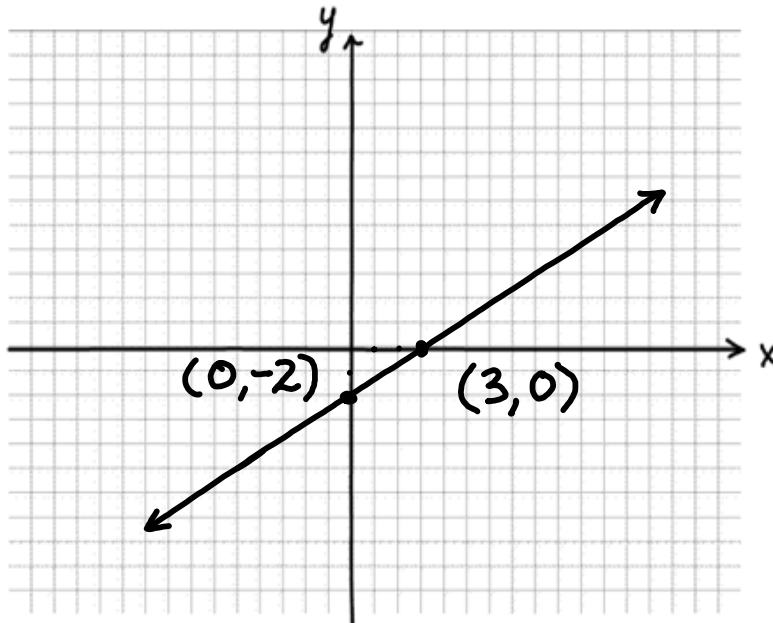
$$2x + 5y = 10$$

x	y
0	2
5	0

18.

$$-4x + 6y = -12$$

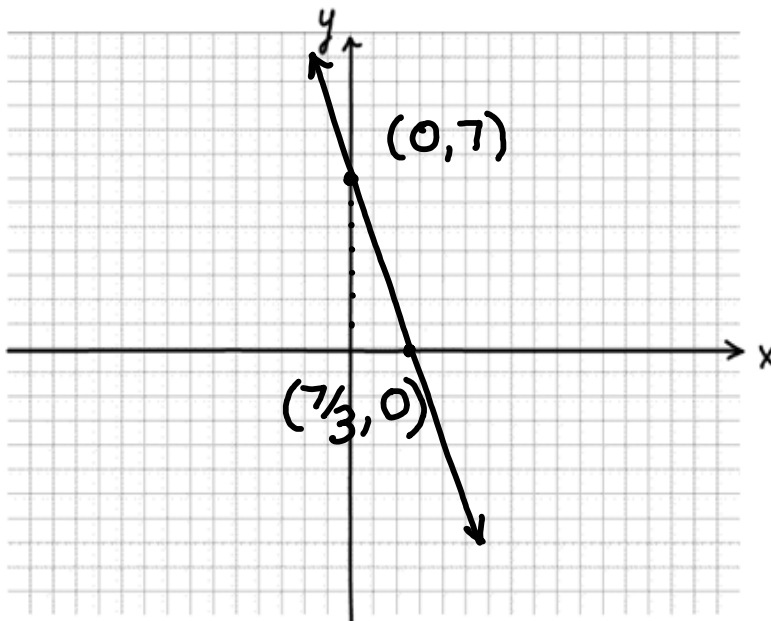
x	y
0	-2
3	0



19.

$$y = -3x + 7$$

x	y
0	7
7/3	0



20.

$$\text{Profit} = 750C + 1000$$

a. \$750 per computer sold

b. 1500 computers

$$P = 1,126,000$$

$$1126000 = 750C + 1000$$

$$750C = 1125000$$

$$C = 1500$$