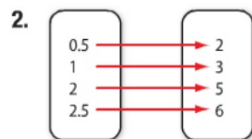


Algebra 2
Review for MCT 2.1-2.4 (Wed.)

State the domain and range of each relation.
Then determine whether each relation is a
function. If it is a function, determine if it is
one-to-one, (Lesson 2-1)

1.

x	y
-2	4
-1	1
2	4
2	6



D: -2, -1, 2

R: 4, 1, 6

Find the x -intercept and y -intercept of the graph of each equation. Then graph the equation using the intercepts. (Lesson 2-2)

3. $y = 3 - 9$

4. $2y - 5x = 10$

$$2y - 0 = 10$$

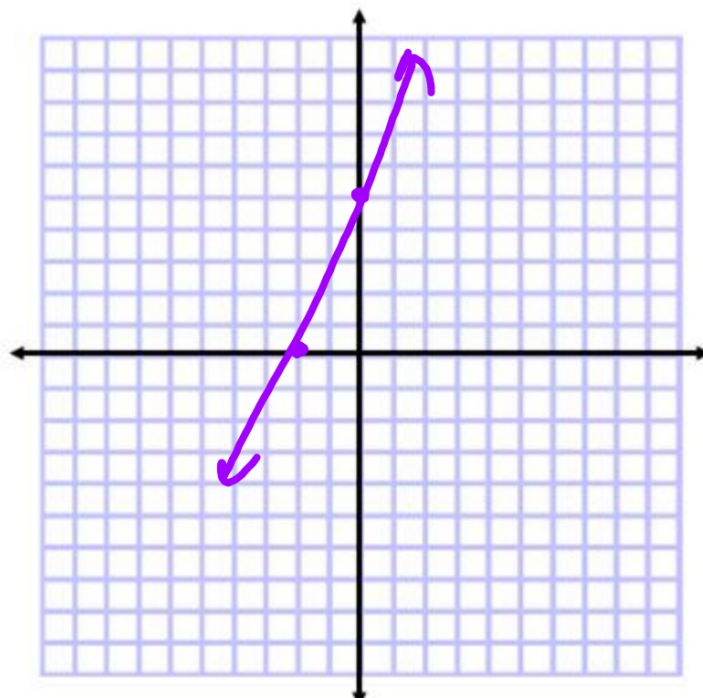
$$2y = 10$$

$$\frac{-5x = 10}{-5} \quad \frac{-5x = 10}{-5}$$

$$(3, 0) \quad (0, 5)$$

$$(0, -9) \quad (-2, 0)$$

$$3x - 9 = 0$$
$$3x = 9$$



7. **REPAIR** An auto mechanic charges an initial fee of \$25 plus an hourly fee of \$35. (Lesson 2-2)

a. Write an equation to represent the situation.

b. How much did it cost Stacy if the mechanic fixed her car in 3.5 hours?

$$y = mx + B$$

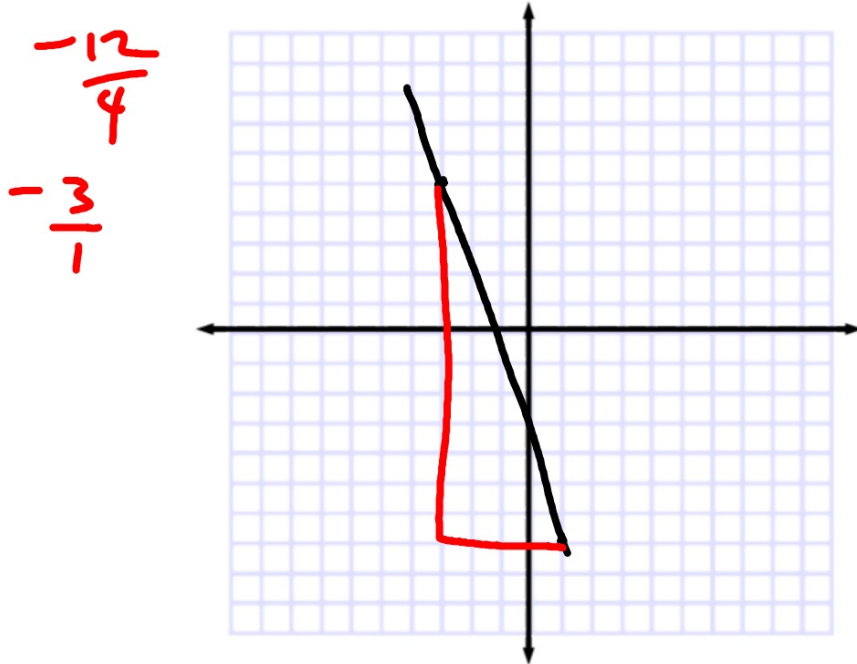
$$y = 35x + 25$$

$$35(\overset{\uparrow}{3.5}) + 25$$

$$\$147.50$$

Find the slope of the line that passes through each pair of points. (Lesson 2-3)

8. $(1, -7), (-3, 5)$



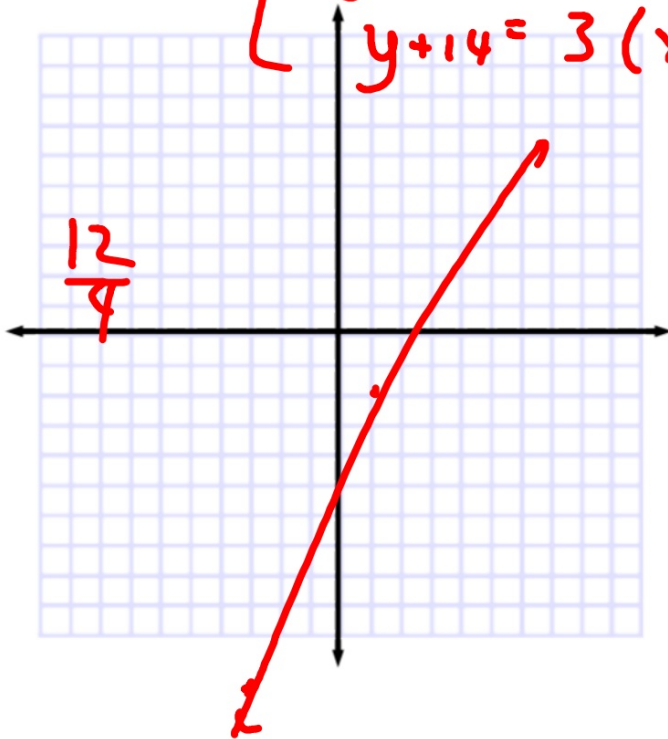
Write an equation of the line passing through each pair of points. (Lesson 2-4)

12. $(-3, -14), (1, -2)$

$$y - y_1 = m(x - x_1)$$

$$y + 2 = 3(x - 1)$$

$$y + 14 = 3(x + 3)$$



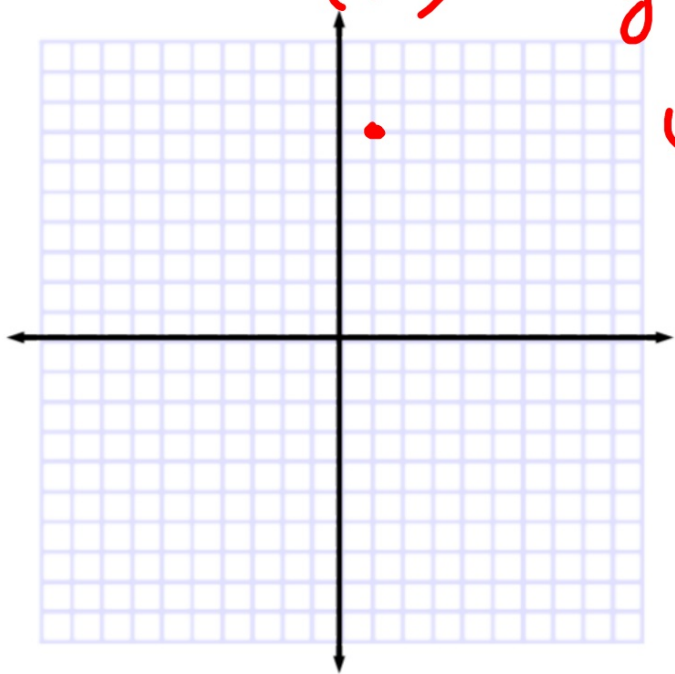
1

Write the equation of a line ~~parallel~~ ^{//} ~~perpendicular~~ [⊥] to $y = 2x + 3$ passing through $(1, 7)$.

$m = 2$ $(1, 7)$

$y - 7 = 2(x - 1)$

$y - 7 = -\frac{1}{2}(x - 1)$



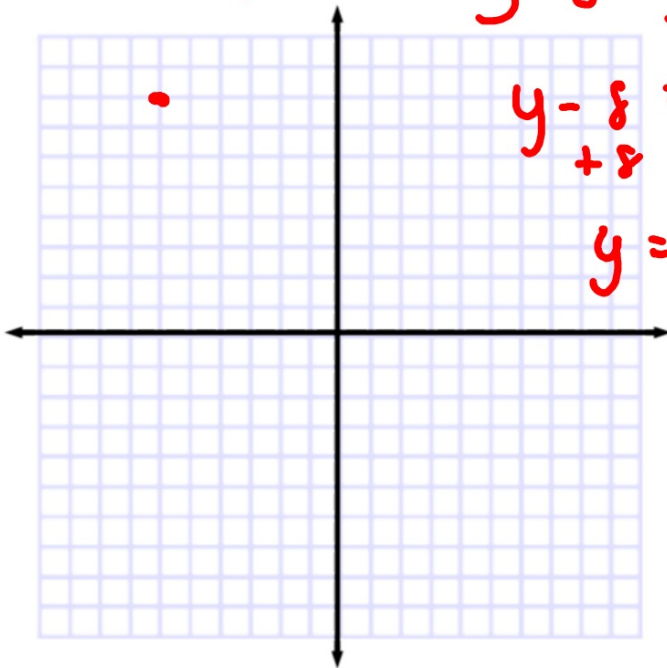
Write the equation of a line perpendicular to $y = -3x + 2$ passing through $(-6, 8)$

$$m = \frac{1}{3}$$

$$y - 8 = \frac{1}{3}(x + 6)$$

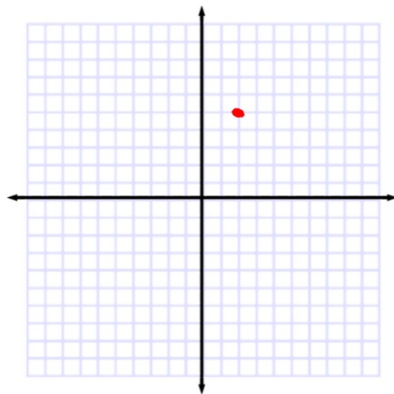
$$y - 8 = \frac{1}{3}x + 2$$

$$y = \frac{1}{3}x + 10$$



Write the equation of a line parallel to $y = -3x + 2$ passing through $(2, 5)$.

$$y - 5 = -3(x - 2)$$



SGR p123

7-410