Graph each equation. Draw 2 graphs on each coordinate plane.

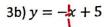
1a)
$$y = 5x - 8$$

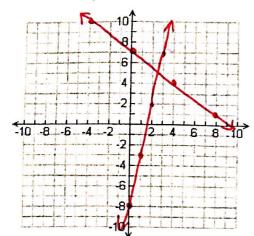
2a)
$$y = \frac{1}{3}x + 6$$

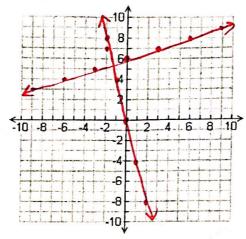
3a)
$$y = x - 3$$

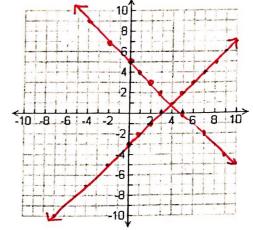
1b)
$$y = -\frac{3}{4}x + 7$$

b)
$$y = -\frac{3}{4}x + 7$$
 2b) $y = -4x + 0$



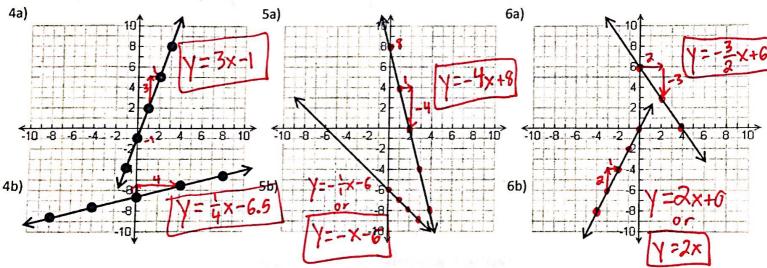






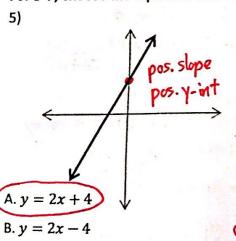
Section 2: Writing Equations in Slope-Intercept Form

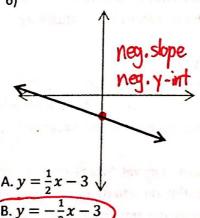
Write an equation in the form y = mx + b.



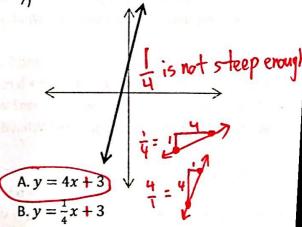
Section 3: Slope-Intercept Form without Exact Graphs

For 5-7, choose the equation that could represent the graph.

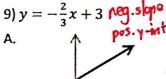


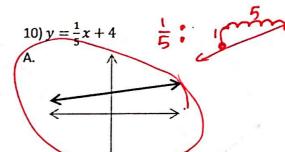


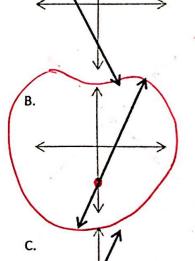


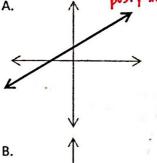


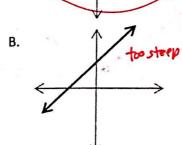
For 8-10, choose the graph that could represent the equation. 8) y = 3x - 5 pos. slope

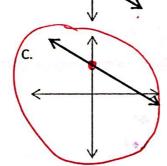


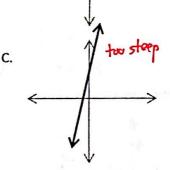










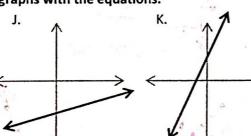


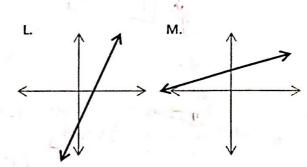
For 11-14, match the graphs with the equations.

$$(x) y = 3x + 6$$

$$12) y = \frac{1}{3}x + 6$$

$$\int 14) y = \frac{1}{3}x - 6$$





Section 4: Slope-Intercept Story Problems

15) A tree was 3 feet tall when it was planted. It grew 1.5 feet per year.

- a. Write an equation in the form y = mx + b representing the situation. y = 1.5x + 3
- b. What is the y-intercept of your equation? What does this represent in the situation? 3; starting height
- c. What is the slope of your equation? What does this represent in the situation?

16) You have \$80 in your wallet. You spend \$5 every minute.

- a. Write an equation in the form y = mx + b representing the situation.
- b. What is the y-intercept of your equation? What does this represent in the situation? 80; original amount of money
- c. What is the slope of your equation? What does this represent in the situation? -5; spen 155 per minute

17) You set up a lemonade stand. You have made no money yet. You plan to sell cups of lemonade for \$0.50 each.

- a. Write an equation in the form y = mx + b representing the situation. $y = 0.50 \times$
- b. What is the y-intercept of your equation? What does this represent in the situation? O; storting amount of money
- c. What is the slope of your equation? What does this represent in the situation? 0.50; mney made per cup

 $y = 80 - 5 \times$