Name:

## Algebra 2 Unit 2 REVIEW: Writing and Graphing Linear Functions in Two Variables

## **Non-Calculator Portion**

Target 2.1: I can graph a linear equation using a table of two values.

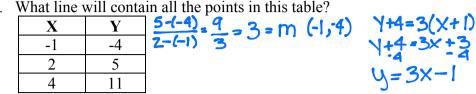
Target 2.2: I can graph a linear equation using x- and y-intercepts.

Target 2.3: I can graph a linear equation using slope and y-intercept.

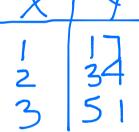
Target 2.8: I can write linear equations when given the graph of the equation.

Target 2.1: I can graph linear equations using a table.

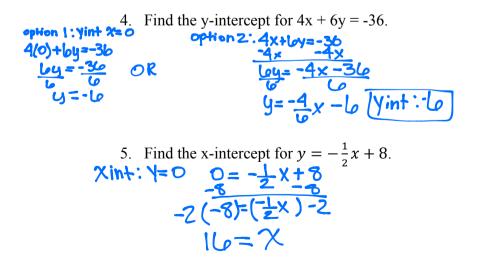
1. What line will contain all the points in this table?



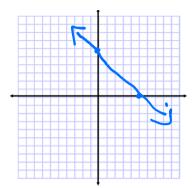
- 2. Which set of ordered pairs (x,y) satisfies the equation 3x 2y = 7?
- B.  $\{(0, -3.5), (1, -2), (-1, -5)\}$ A.  $\{(1.4,1), (1,0), (0.6,-1)\}$ C.  $\{(3, 2), (-1, 0), (-1, 4, -1)\}$ D.  $\{(1, -0.6), (0, -1), (-1, -1.4)\}$
- 3. The cost of a ticket for an event is \$17. Make a table that shows the amount, y, Justin will spend to buy x tickets?



Target 2.2: I can graph linear equations using x- and y-intercepts.

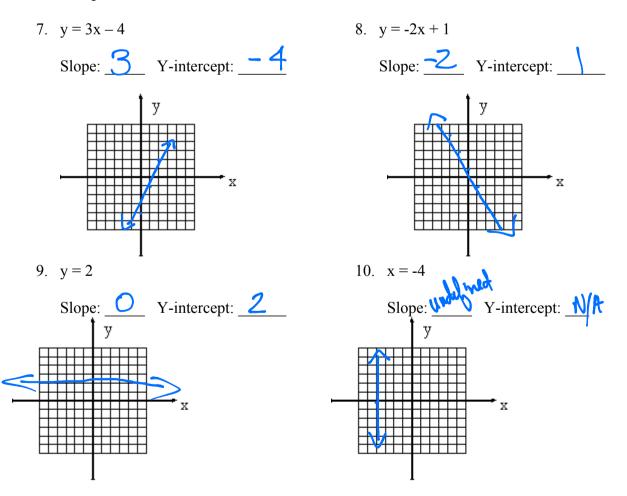


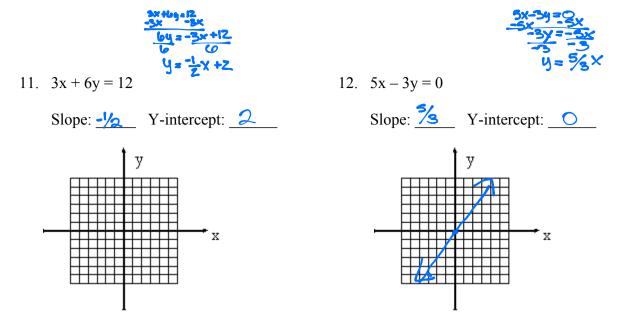
6. Isabella drew a line with an x-intercept of 5 and a y-intercept of 7. What did her line look like?



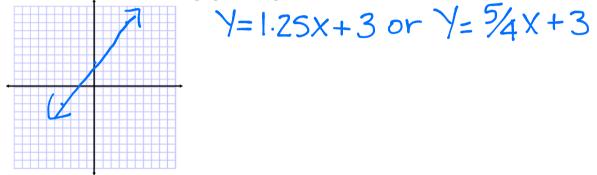
Target 2.3: I can graph linear equations using slope and y-intercept.

Graph each of the following equations on the coordinate axis. State the slope, y-intercept or x-intercept as indicated for each.

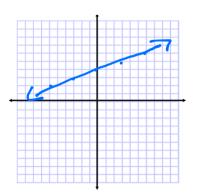




13. The cost of a single-scoop ice cream cone is \$3.00. Each extra scoop of ice cream costs an additional \$1.25. If x is the number of extra scoops of ice cream and y is the total cost of an ice cream cone, draw a graph that represents this situation?

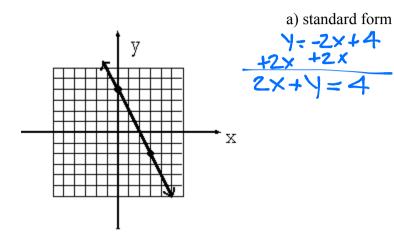


14. The equation  $y = \frac{1}{3}x + 4$  represents the total monthly cost, y, of a cell phone plan when x minutes are used. Draw a graph that represents this equation?



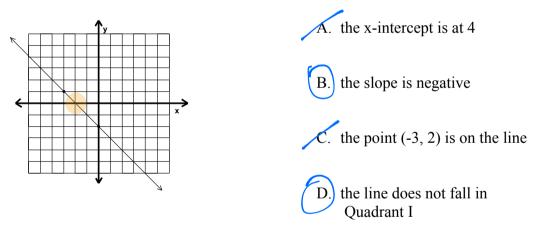
Target 2.8: I can write linear equations when given the graph of the equation.

15. Find the equation for the line graphed in a) standard form and b) slope-intercept form.



b)slope-intercept form m=-z b<4  $\gamma = -Z \times +4$ 

16. Which of the following is **correct** for the given graph?



17. Which of the following is *incorrect* for the graph below?

