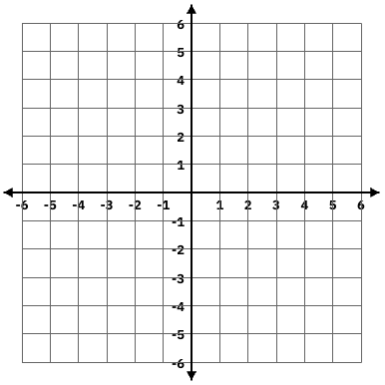
PRACTICE UNIT 1B Lesson 3 U1B L3 Graphing Linear Equations Name: _____HR:_____

Directions: Graph accurately showing two points on every graph, fill in the blanks.

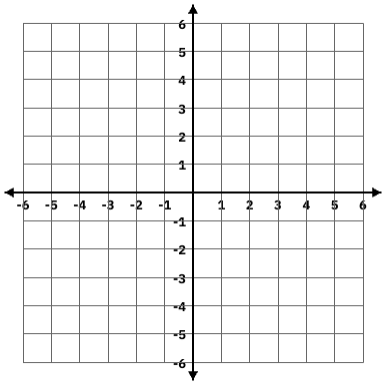
1. $f(x) = -3x + 5$

m = b =



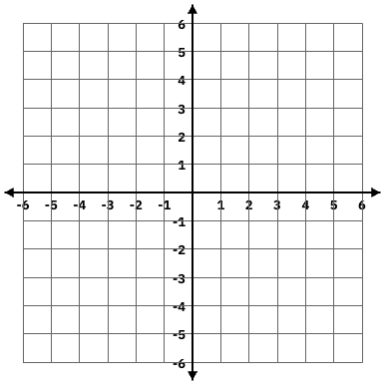
2. $g(x) = 1/2x - 3$

m = b =



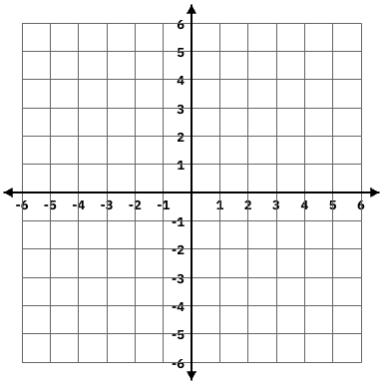
3. $h(x) = 4x - 1$

m = b =



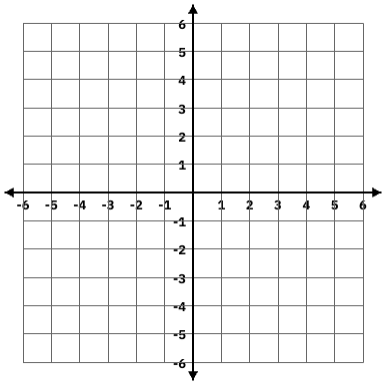
4. $p(x) = \frac{-2}{3}x + 2$

m = b =



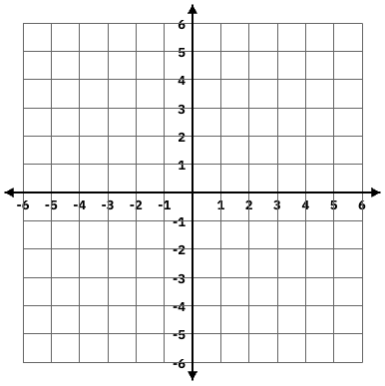
5. $y = x + 4$

m = b =

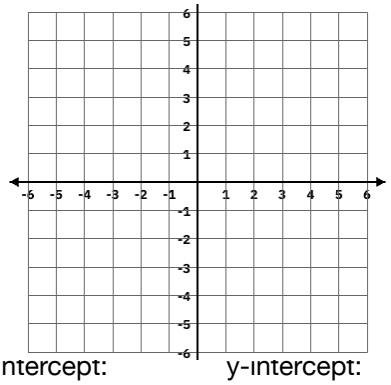


6. $y = 5 - x$ (put in slope-int form)
Slope-intercept form:

m = b =

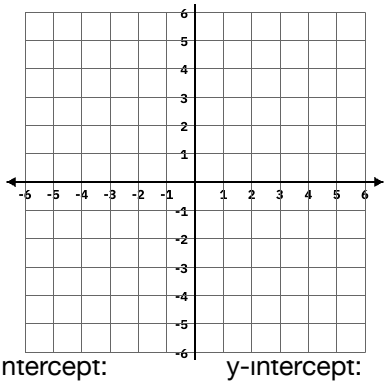


7. $3x + 5y = 15$ FIND x and y intercepts. Then graph.



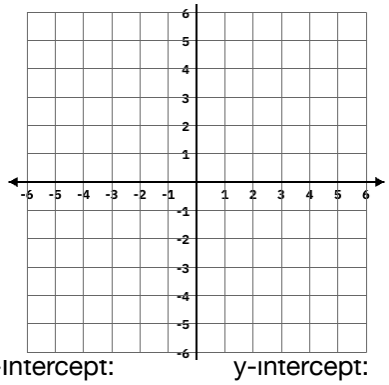
x-intercept: y-intercept:

8. $-2x + y = 4$ FIND x and y intercepts. Then graph.



x-intercept: y-intercept:

9. $7x - 7y = 35$ FIND x and y intercepts. Then graph.

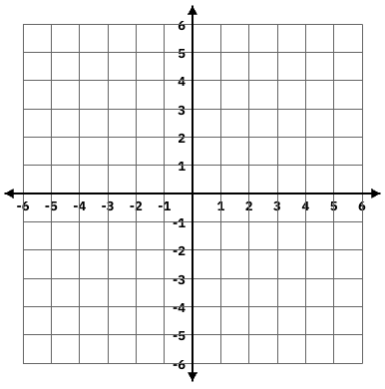


x-intercept: y-intercept:

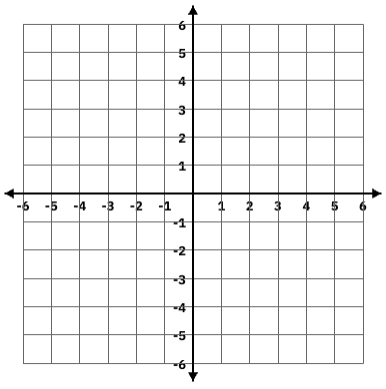
U1B L3 Graphing Linear Equations Name: _____HR:_____

Directions: Put in SLOPE-INTERCEPT form and graph.

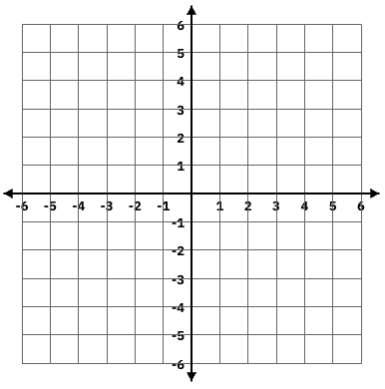
10. $4y - 8x = 12$



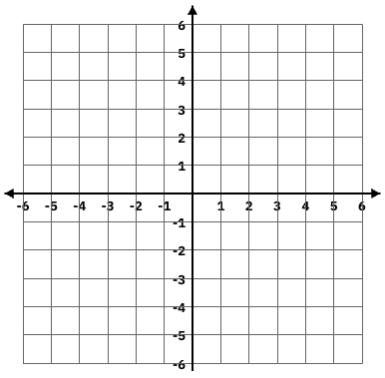
11. $2x - y = 6$



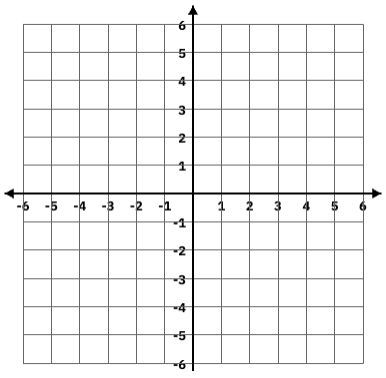
12. $9x - 3y = 18$



Horizontal lines have a slope m = _____. Graph the line $y = 3$. Try it on desmos.

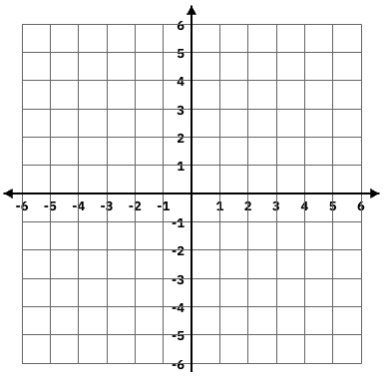


Vertical lines have a slope = m = _____. (This means there is not a number that describes the lines steepness, the line is just called vertical and everyone then knows it goes straight up!) Graph: $x = -5$



13. Graph the following: (Get the variable alone if needed.)

a. $y = 5$
b. $2x = 6$
c. $x + 3 = 3$
d. $y - 3 = 0$



14. A fishing line is 120 inches long when no weight is attached. When a weight is attached, the line stretches an additional 0.35 inches for every pound of weight.

Write a function that models the total length of the fishing line as a function of the weight attached.

15. You have $50 in your wallet and earn $15 per hour babysitting.

a. Write a function $M(t)$ in slope-intercept form.

b. How many hours do you need to work to save $140? (Show work)

16. A tank initially contains 200 liters of water and drains at a constant rate of 8 liters per minute.

a. Let $V(t)$ be the volume in liters after t minutes.

b. Write $V(t)$ in slope-intercept form.

c. How long does it take to empty the tank? (Show work)