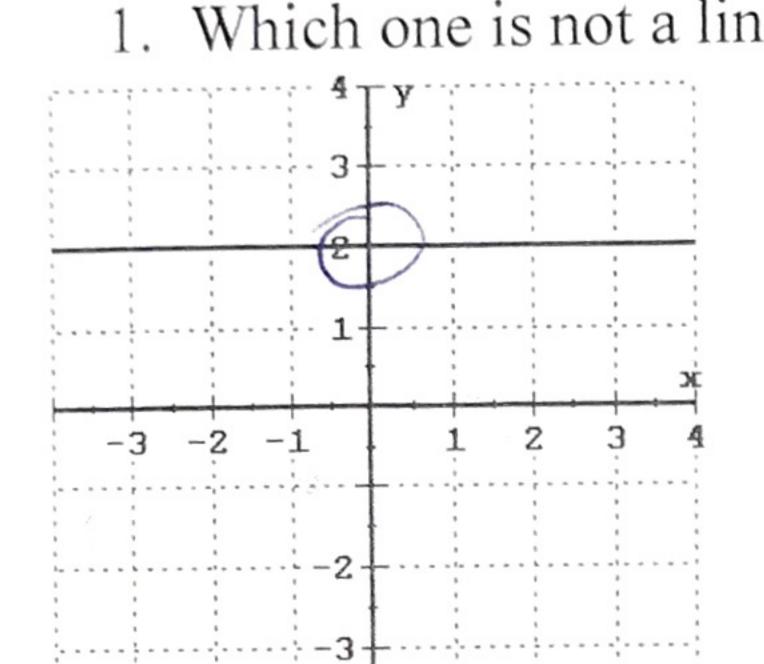
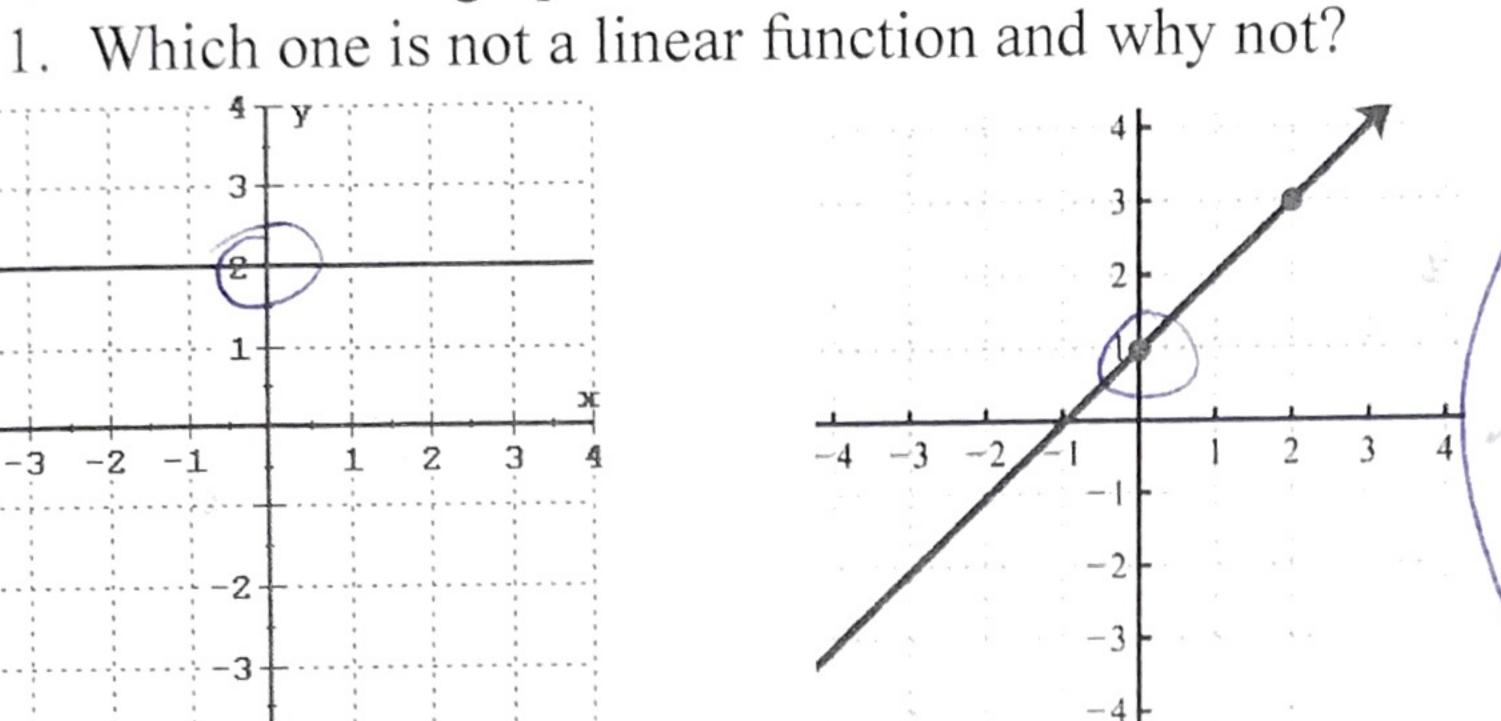
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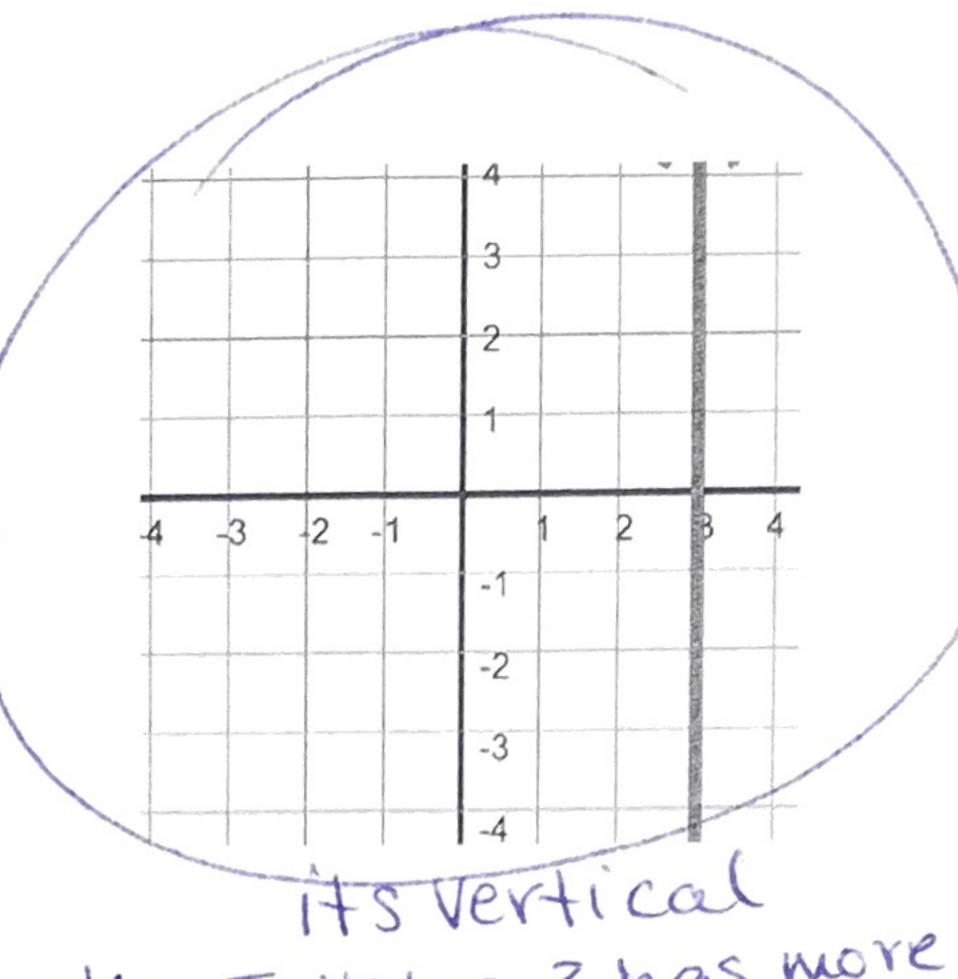
Unit 3b Day 10: Equations of a Linear Function

Focus Question: What is the equation of a linear function?

A. Two of the three graphs below are linear functions.







the I. Value 3 has more Inctions have in common 2. List all of the things that only the two graphs of linear functions have in common. yint & Slope

3. Based on your list, what do you think are the most important parts of a linear function?

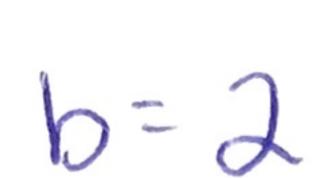
yint & Slope

- E. The slope-intercept form of a function is written y = mx + b where b is the y value of the y-intercpet (or where it begins on the y axis when there is a context) and m is the slope (or how the point moves from its previous point).
 - 1. For the equation y = mx + b, we say that y depends on x. Explain how we can see that in the equation. BIC the yis Isolated
 - 2. Because we know it is a function, we can use function notation & write f(x) = mx + b. How can you still tell the x is the independent variable.

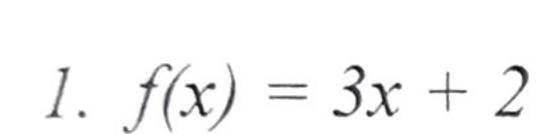
its in the ()

- 3. In the equation y = mx + b or f(x) = mx + b, m and b are representing numbers (for example y = 6x + 2). What is another vocabulary word for m? (Hint, it is the number in front of the variable.) Coefficent
- 4. What is the slope in y = 6x + 2? m=6

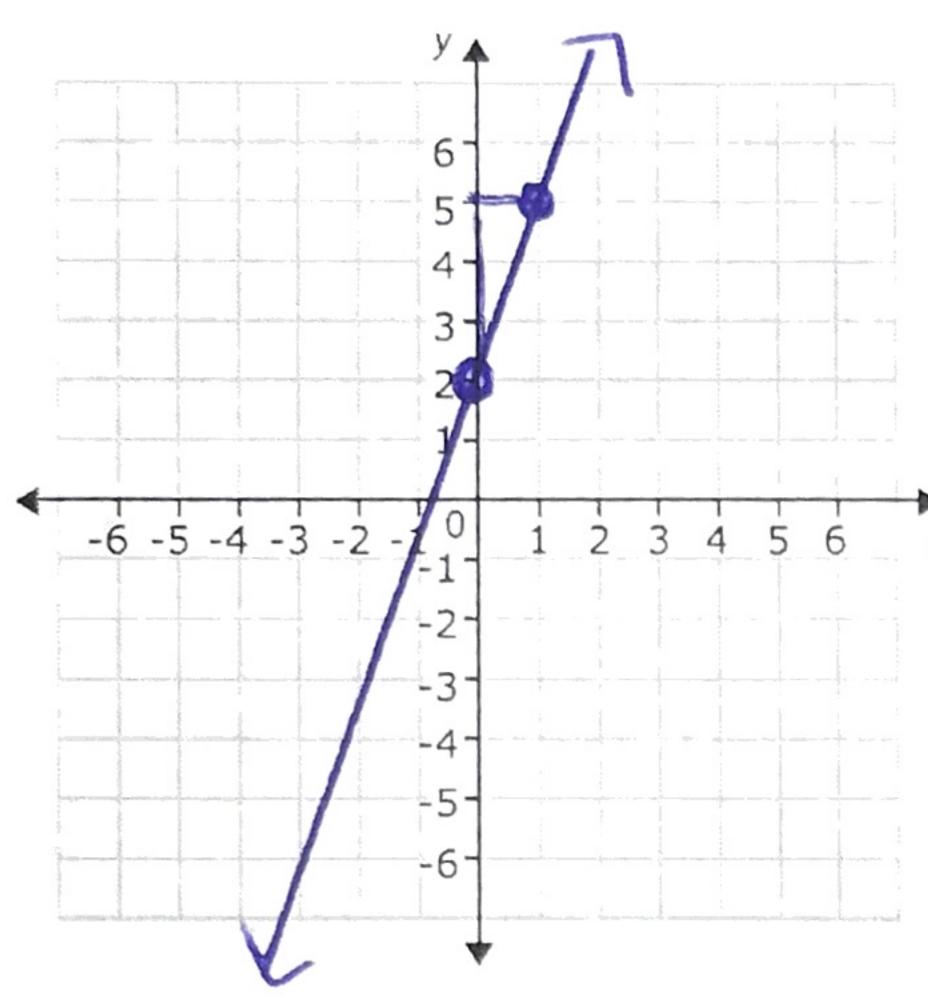
- y-mx+b
- 5. What is another vocabulary word for b? (Hint, it is a number with no variable.)
- 6. What is the y intercept in y = 6x + 2? b = 2



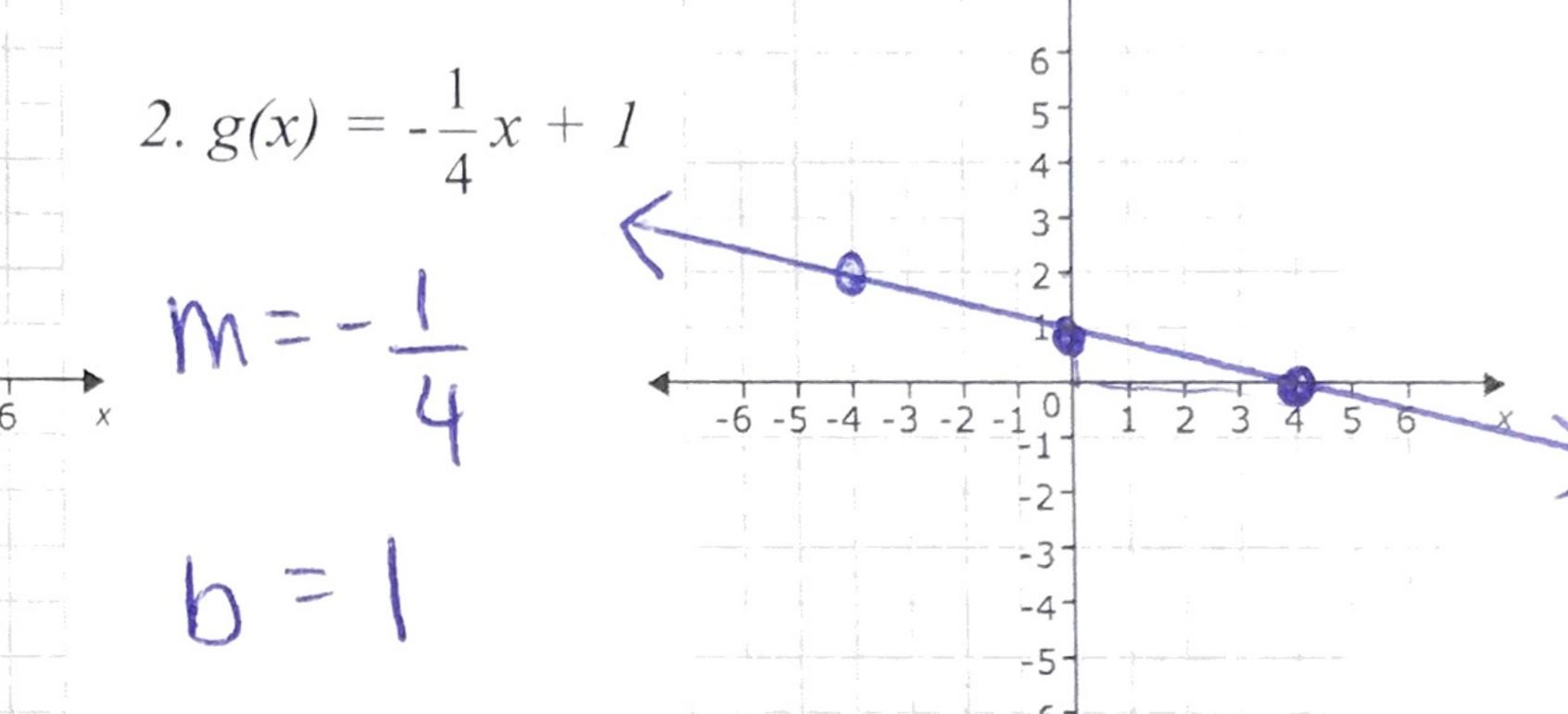
F. For each equation below, identify the slope and y intercept. Then graph the line.



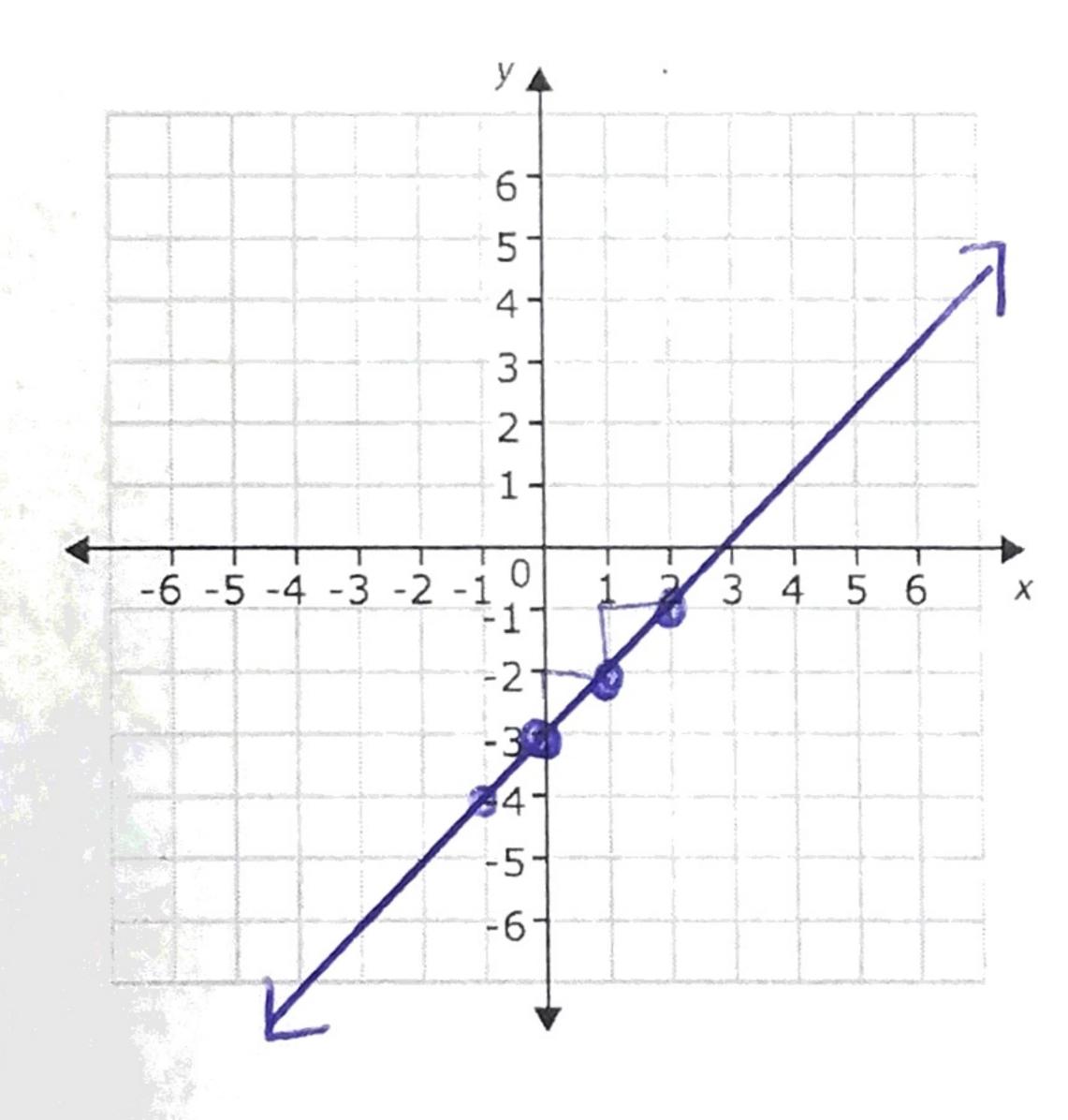
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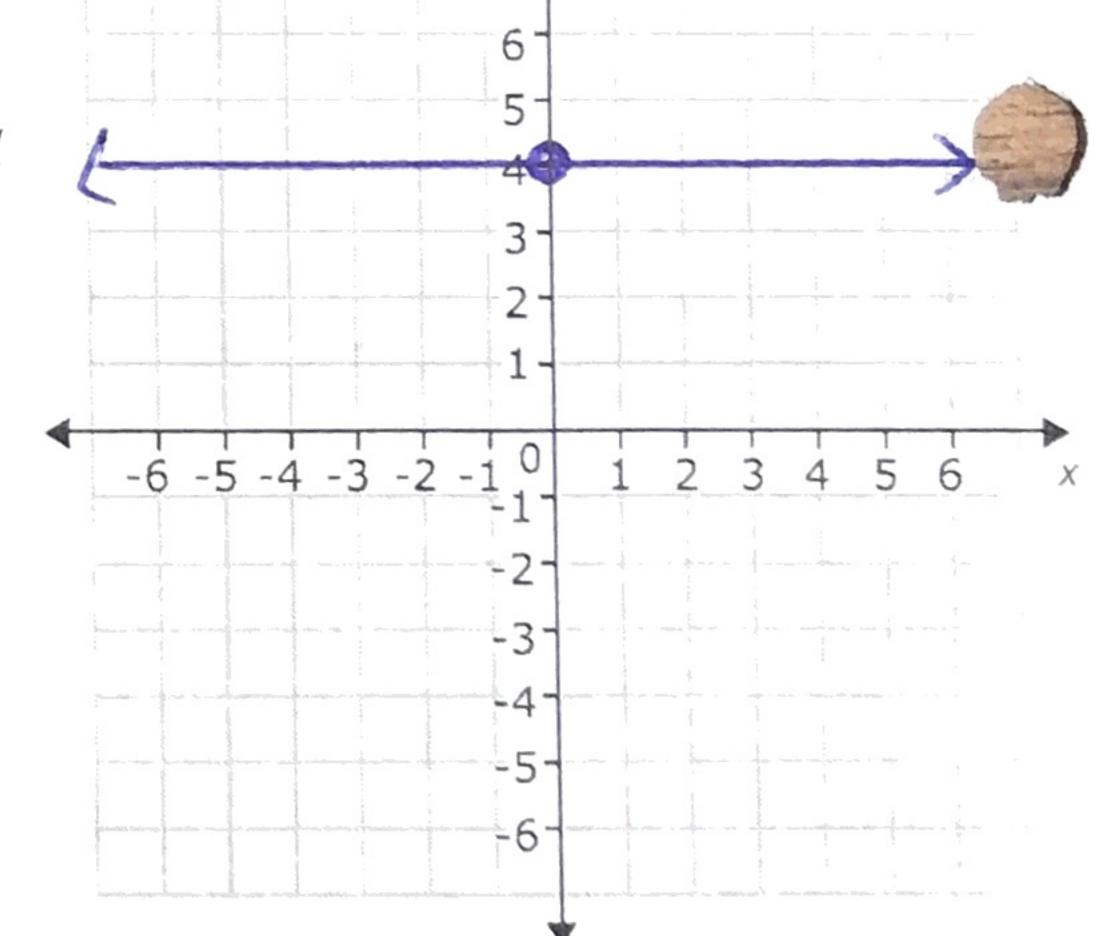
2.
$$g(x) = -\frac{1}{4}x + 1$$



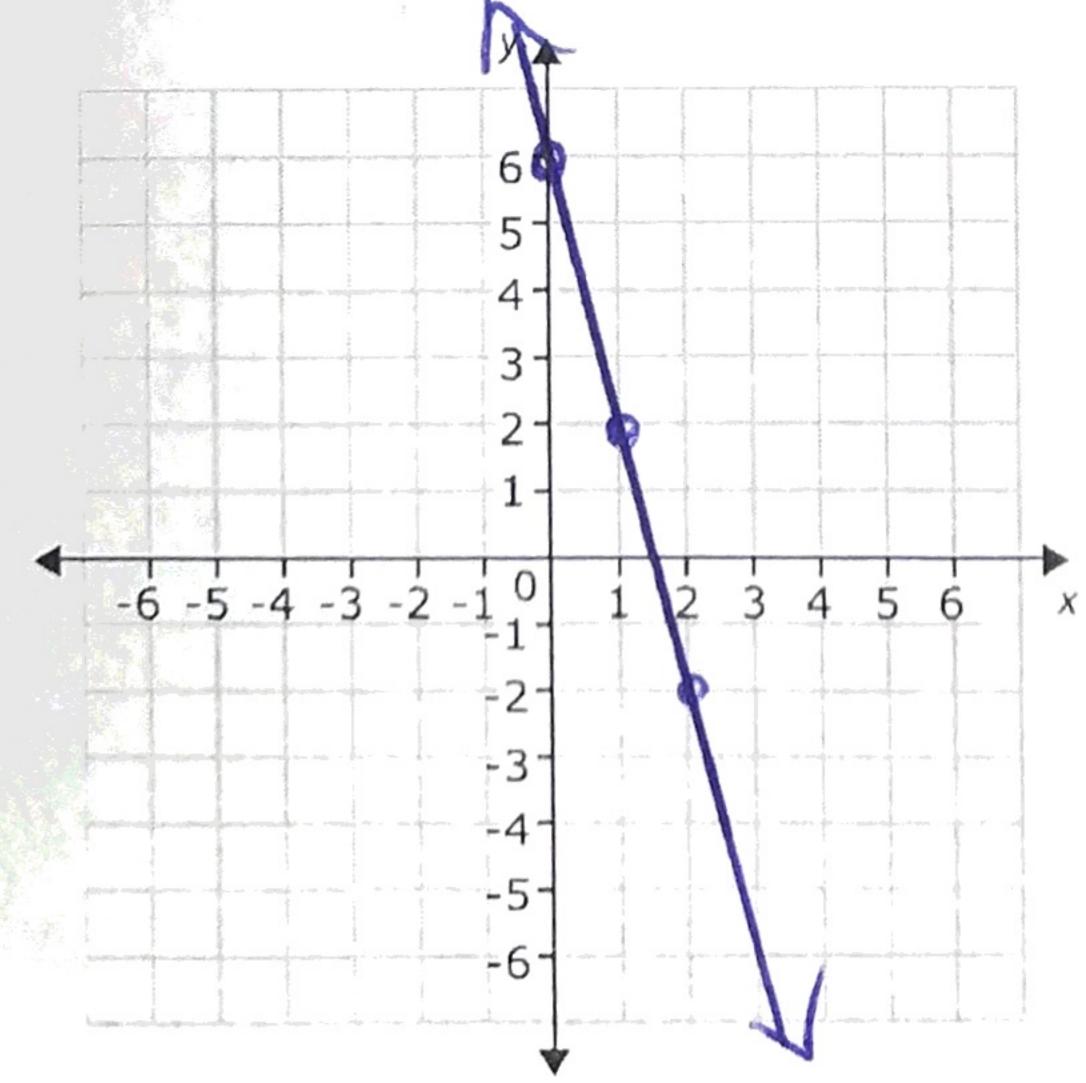
3.
$$h(x) = x - 3$$



4.
$$f(x) = 4$$



5.
$$y = -4x + 6$$



6.
$$y = -\frac{2}{3}x - 2$$

