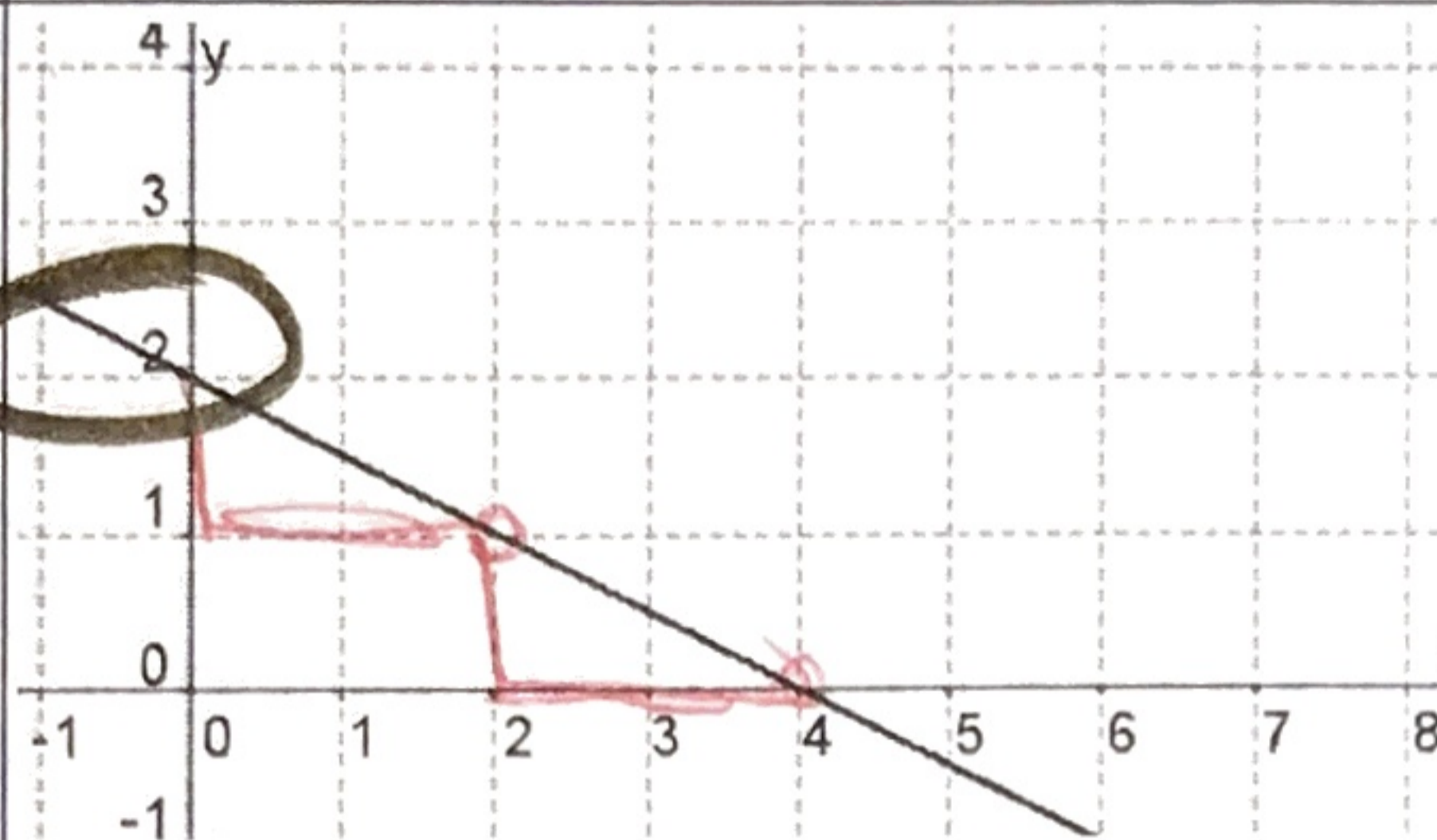
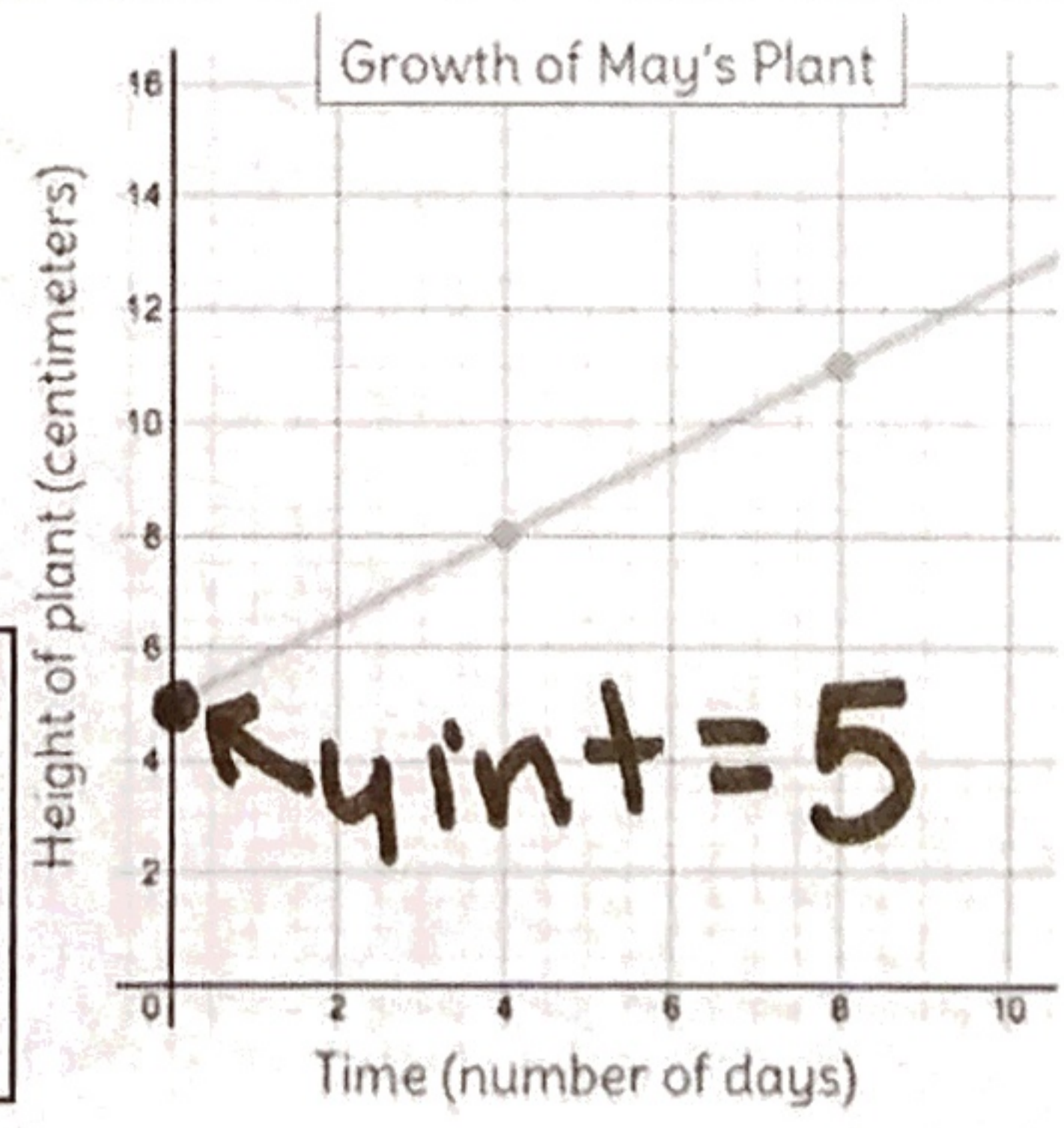


LINEAR FUNCTIONS PART 2
UNIT 3 TARGETS

SKILL	EXAMPLE	I THINK I WILL GET A...	ACTUAL TEST SCORE														
I can find the y intercept of a graph.	 <p style="text-align: center;">$m = -\frac{1}{2}$ $b = 2$</p> <p>Give the y intercept of the graph.</p>																
**I can write the equation of a line from a graph.	<p>Give the equation of the line that is graphed above.</p> <p style="text-align: center;">$y = -\frac{1}{2}x + 2$</p>																
** I can graph a line in slope intercept form.	<p>Graph each equation:</p> <p>a) $y = 3x - 4$ b) $y = \frac{1}{2}x$ c) $y = -2x + 1$ d) $y = 5$</p> <p style="text-align: center;"><i>see graph paper below</i></p>																
I can find the y intercept of a table.	<p>Give the y intercept of the table below.</p> <table border="1" data-bbox="646 1485 970 1860"> <thead> <tr> <th>number of sodas</th> <th>bags of popcorn</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>6</td> <td>6</td> </tr> <tr> <td>9</td> <td>4</td> </tr> <tr> <td>12</td> <td>2</td> </tr> <tr> <td>15</td> <td>0</td> </tr> </tbody> </table> <p style="text-align: center;">$b = 10$ $m = -\frac{2}{3}$</p>	number of sodas	bags of popcorn	0	10	3	8	6	6	9	4	12	2	15	0		
number of sodas	bags of popcorn																
0	10																
3	8																
6	6																
9	4																
12	2																
15	0																
**I can write the equation of a line from a table.	<p>Write the equation of the table above.</p> <p style="text-align: center;">$y = -\frac{2}{3}x + 10$</p>																
I can write the equation of a line from two points.	<p>Write the equation of the line that goes through the points (4, -2) and (6, 8)</p> <p style="text-align: center;"><i>see graph paper below</i></p>																
I can interpret the y intercept in context.	<p>The graph to the right shows the relationship between the height (in centimeters) of May's new plant and the number of days she's had it.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>What is the y intercept and what does it mean in this situation?</p> </div> 																

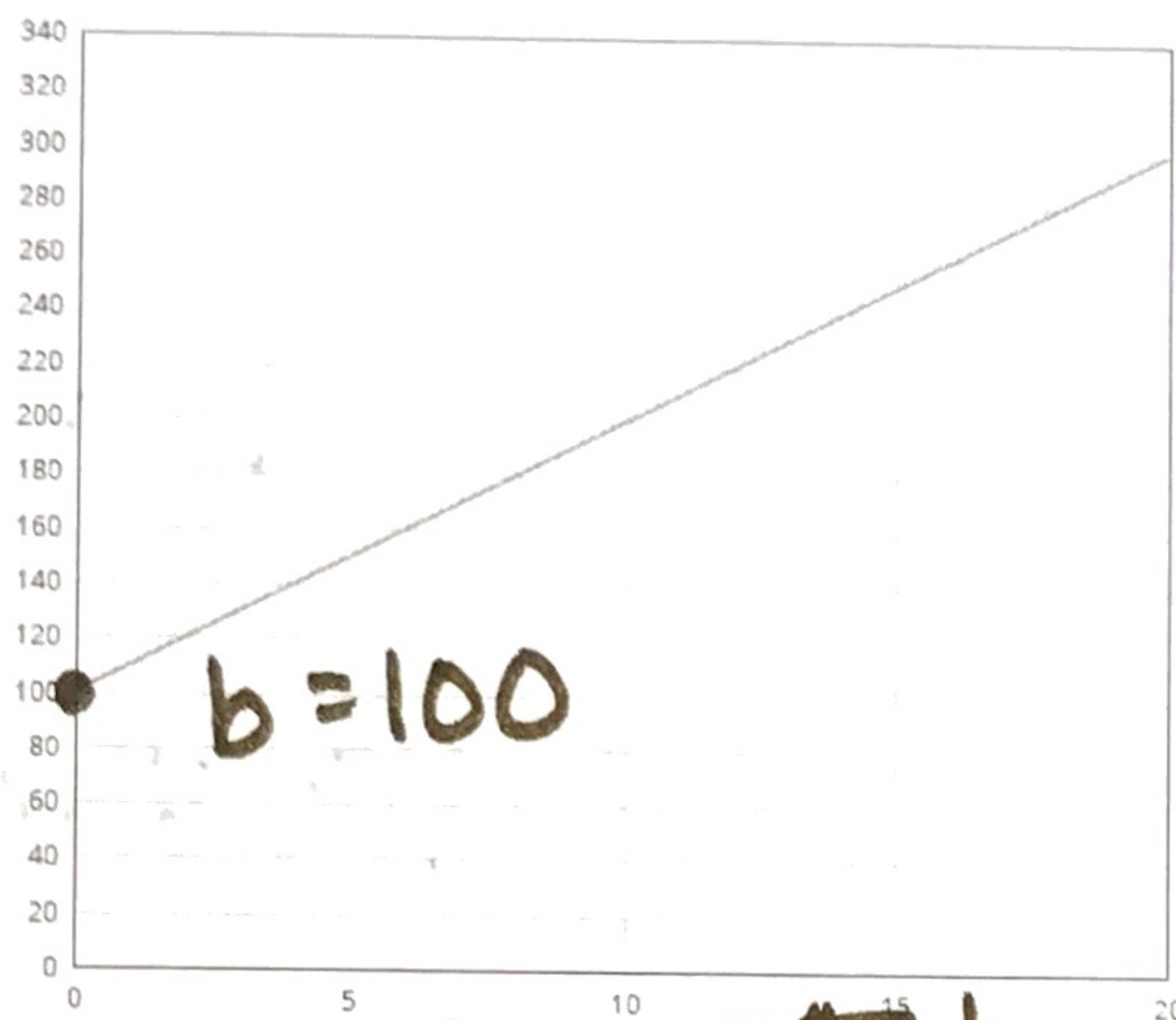
The plant was 5 cm tall the day May got it.

I can compare y intercepts when they are presented in different ways.

Maria is comparing wedding catering companies. Each company has given her information relating to number of guests and cost of the service. Which company charges the most to deliver the food? How much more do they charge than the company that charges the least?

Company A: $c = 15n + 75$ $b = 75$

Company B:



Company C:

	0	25	b
10	10	225	} 200
	20	425	
	30	625	
	40	825	
	50	1025	

Fee!
y int
needed

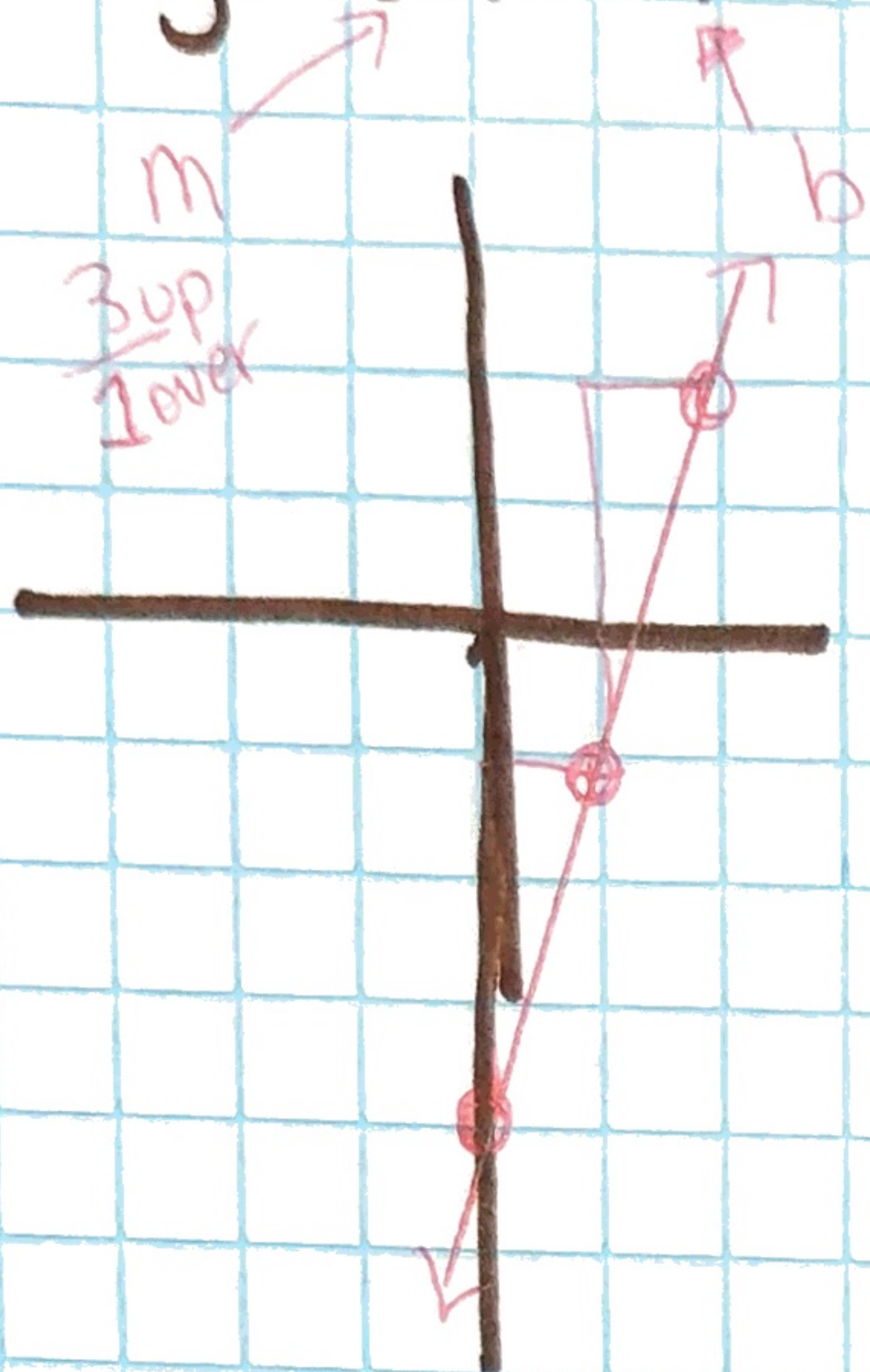
Company B
charges the
most by
\$75
(100 - 25)
↑ most ↑ least

REFLECTION:

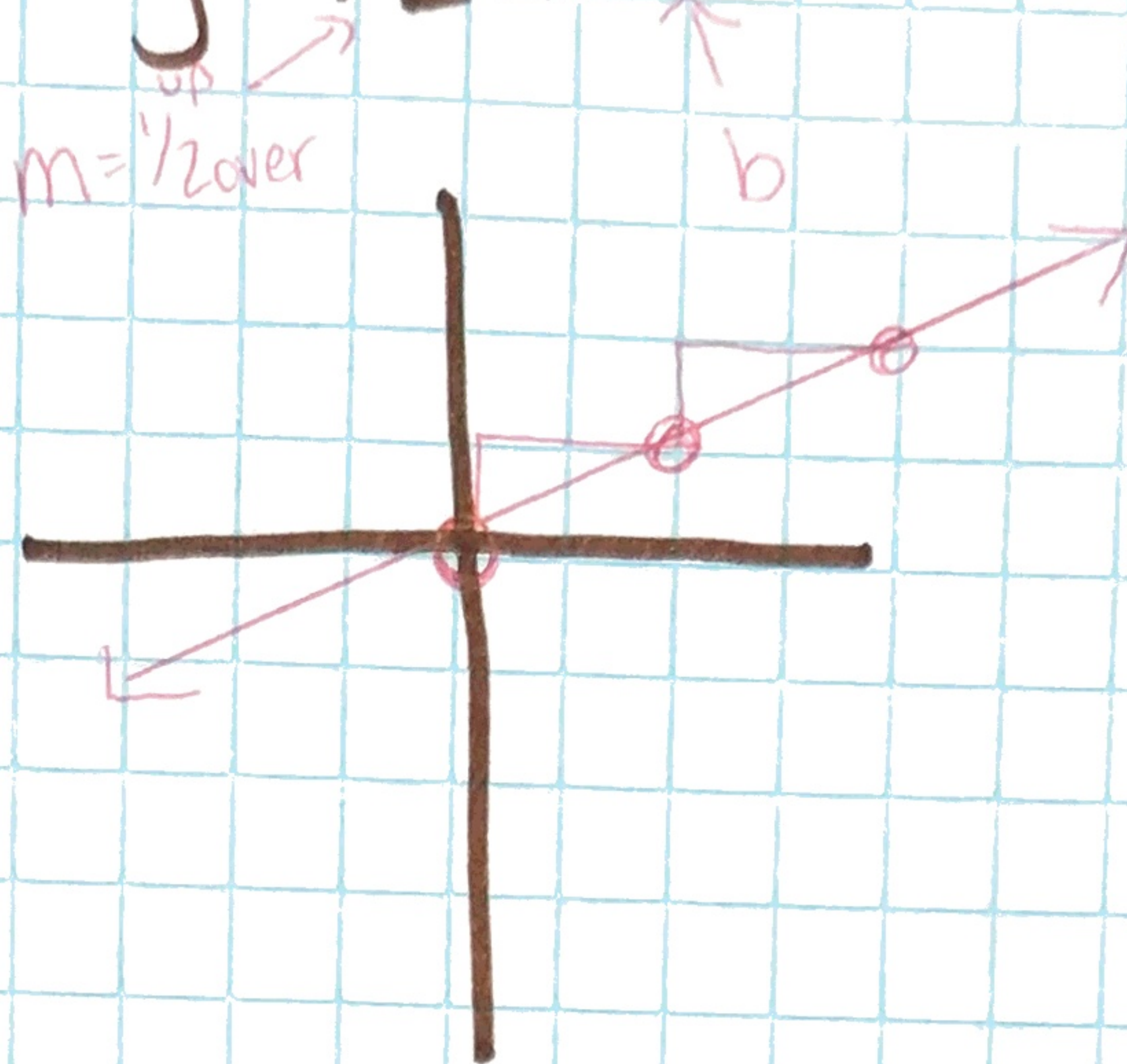
** Is an essential standard that students will be remediated for if they do not score proficient.

5.0	Clearly and accurately shows understanding with no conceptual errors in reasoning or conclusions.
4.5	Clearly and accurately shows understanding with only calculation and/or copy errors.
4.0	Correct answer with no support Or One minor error in reasoning demonstrated.
3.5	Several minor errors in reasoning or conclusions
3.0	Shows some understanding but makes major errors in reasoning or conclusions.
2.5	Some mathematical effort is made but shows little understanding.
2.0	No Attempt or irrelevant answer

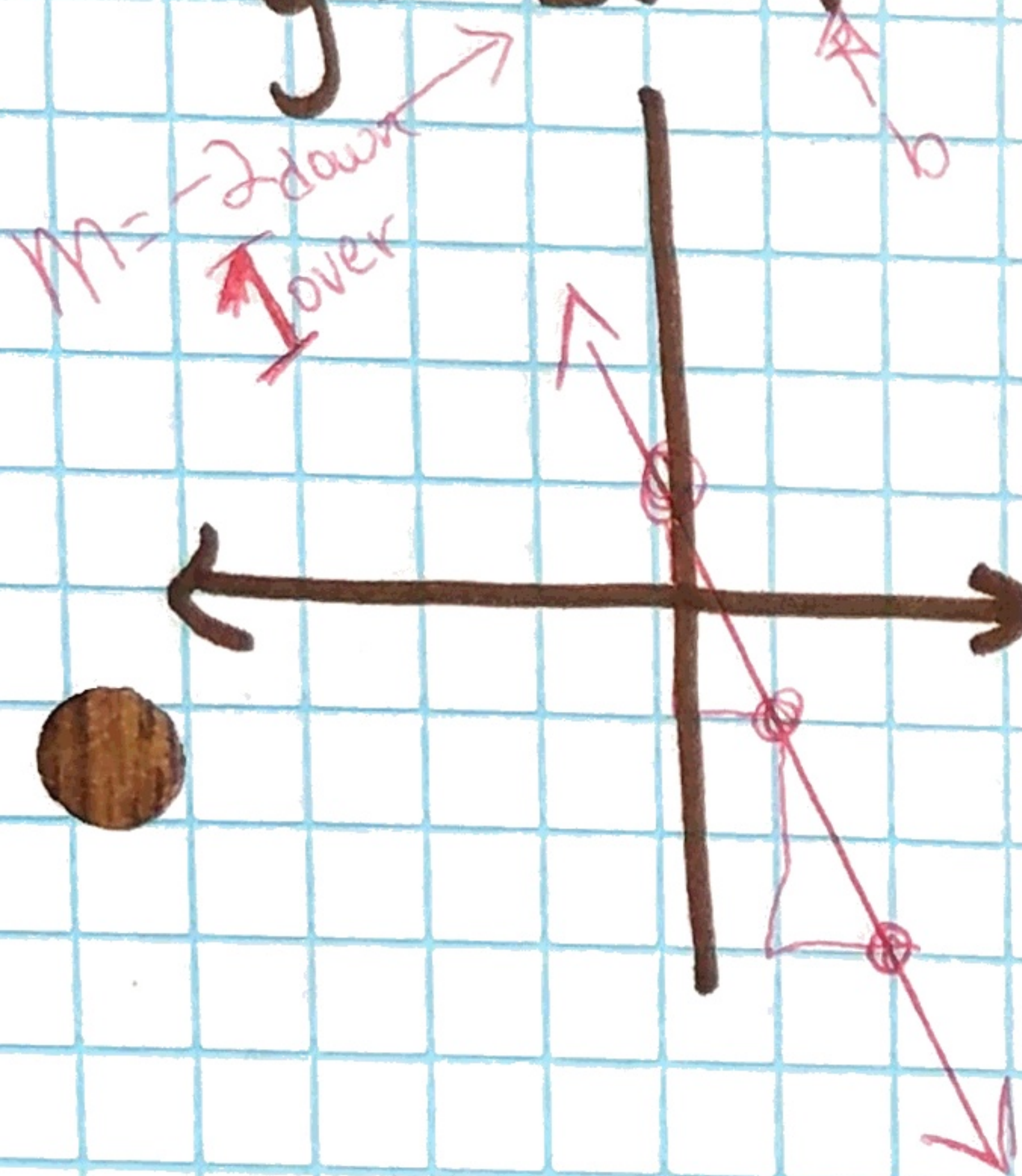
$$y = 3x - 4$$



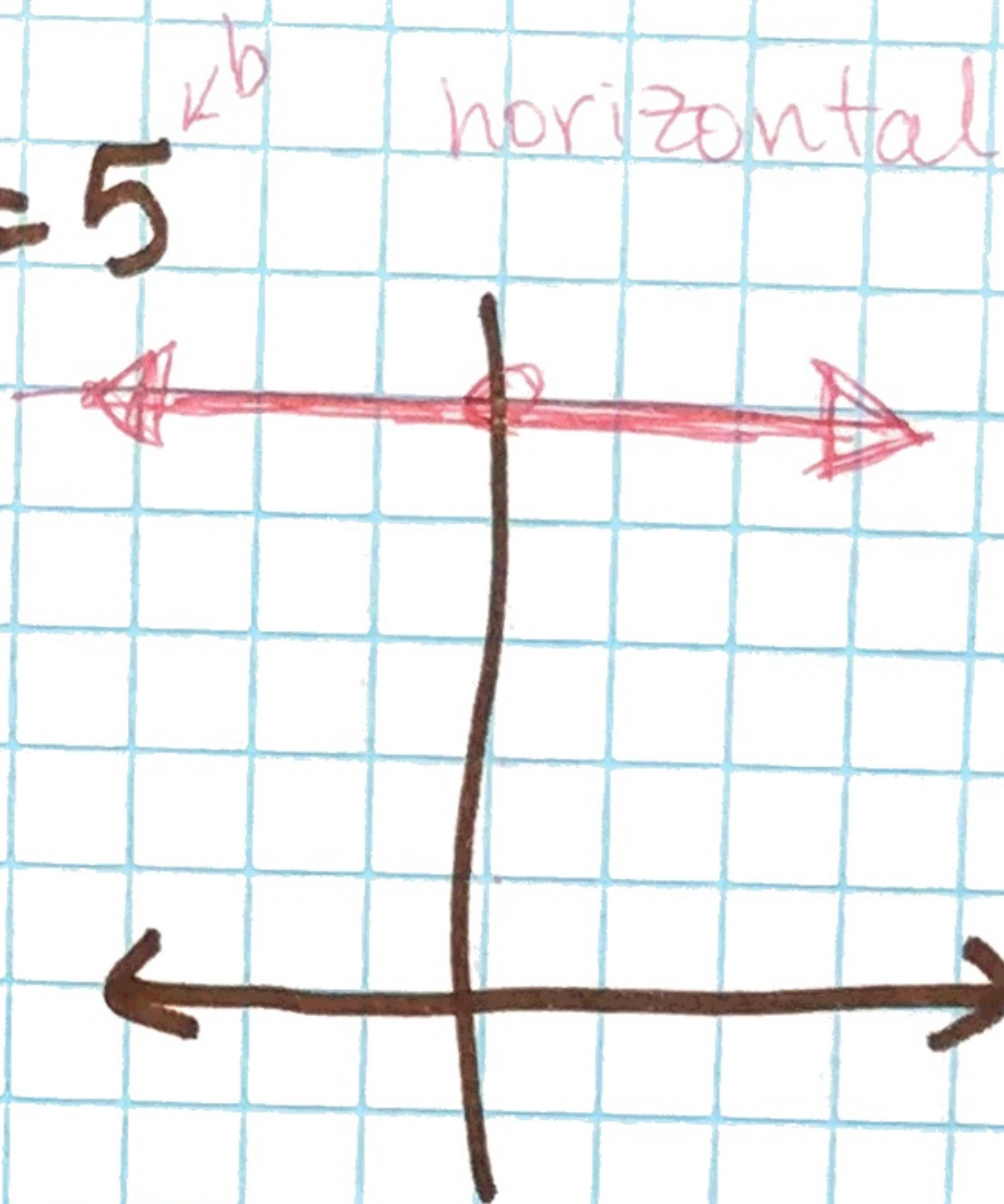
$$y = \frac{1}{2}x + 0$$



$$y = -2x + 1$$



$$y = 5$$



$$(4, -2) \quad (6, 8)$$

$$m = \frac{\Delta y}{\Delta x} = \frac{8 - (-2)}{6 - 4} = \frac{10}{2} \quad m = 5$$

$$y = mx + b$$

$$8 = 5(6) + b$$

$$8 = 30 + b$$

$$\begin{array}{r} -30 \quad -30 \\ \hline -22 = b \end{array}$$

$$\boxed{y = 5x - 22}$$