

1.1 Linear Equations

$$y = 2x + 3 \quad \text{Linear}$$

$$y = x^2 + 4$$

Quadratic x^2

$$y = \frac{2}{x}$$

x in denominator

pt 50.

2200

Add 70 each year

x years

y enrollment

	x years	y enrollment	
+1 <	0	2200	> +70
+1 <	1	2270	> +70
	2	2340	> +70
	3	2410	> +70
	4	2480	> +70

$$y = 70x + 2200$$

1.2 Slope

$$m = \frac{\text{rise}}{\text{run}}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

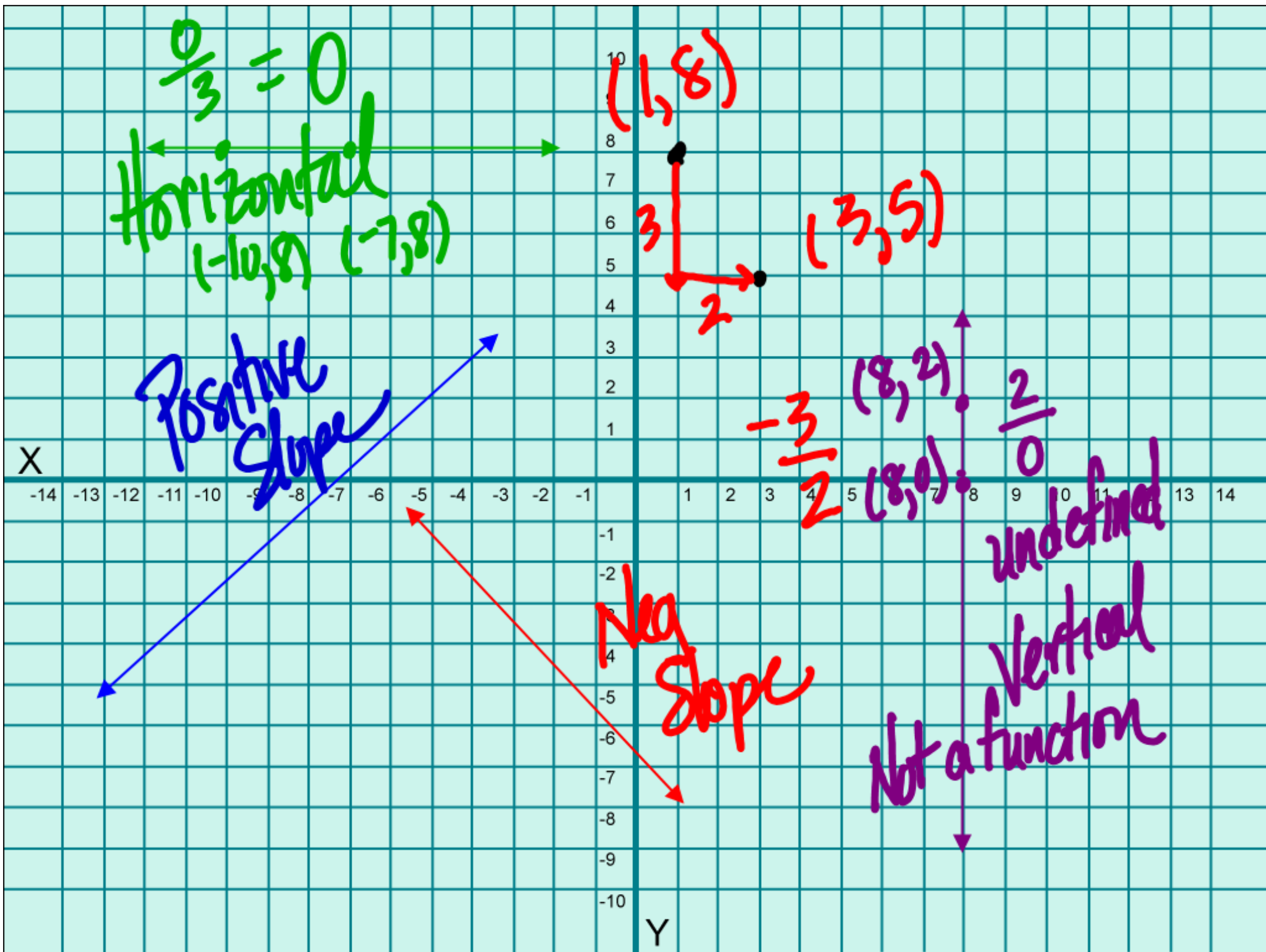
$$\begin{array}{cc} x & y \\ (3, 5) & (1, 8) \end{array}$$

$$m = \frac{8-5}{1-3}$$

$$m = \frac{3}{-2}$$

$$m = -\frac{3}{2}$$

$$m = -\frac{3}{2}$$



$$2x + 3y = 6$$

Standard
Form

$$3y = -2x + 6$$

Slope intercept

$$y = -\frac{2}{3}x + 2$$

y-intercept

$$2x + 3y = 6$$

y-intercept
 $x = 0$

$$2(0) + 3y = 6$$

$$y = 2$$

$$2x + 3y = 6$$

x-intercept
 $y = 0$

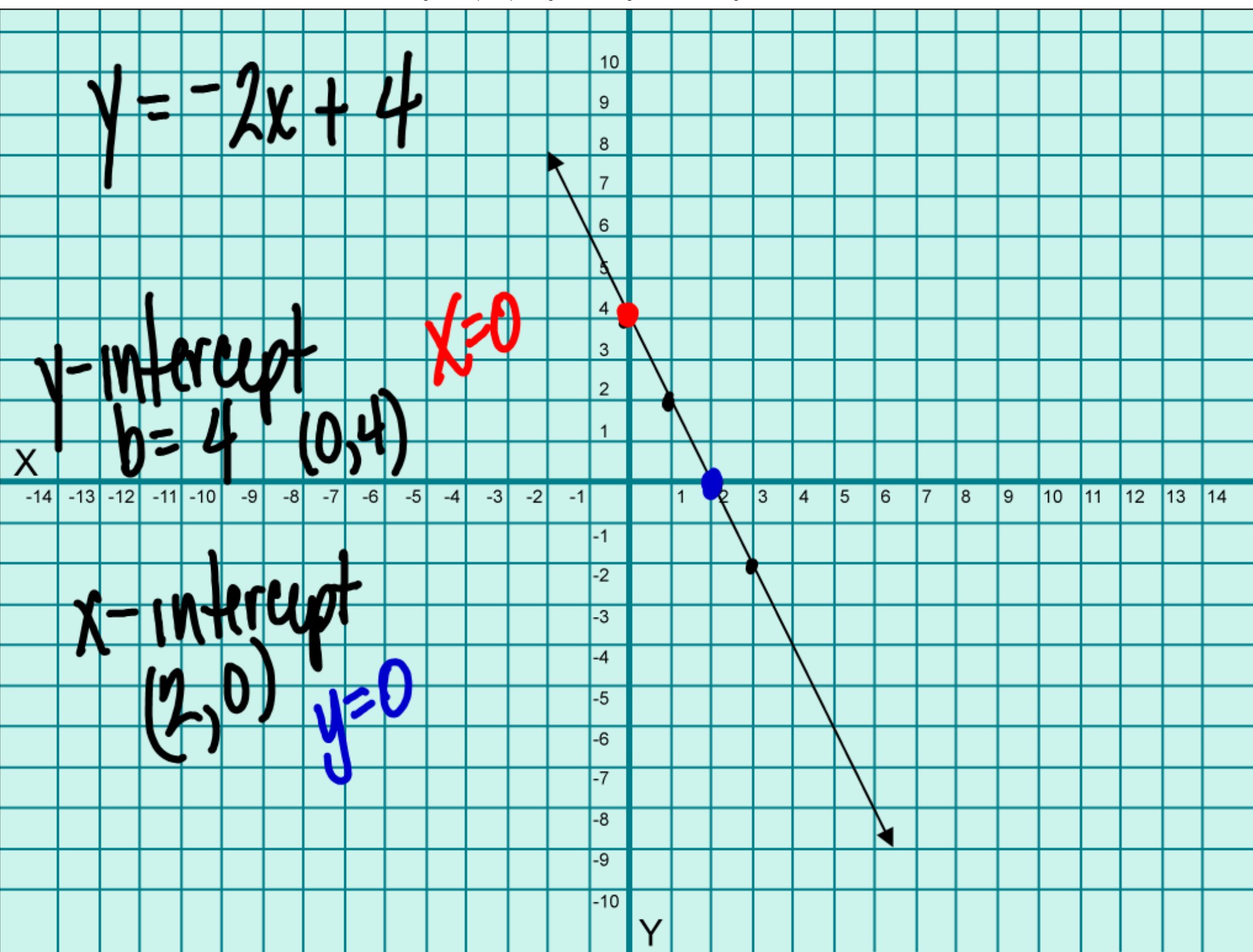
$$2x + 3(0) = 6$$

$$x = 3$$

$$y = -2x + 4$$

y-intercept
 $b = 4$ $(0, 4)$
 $x = 0$

x-intercept
 $(2, 0)$
 $y = 0$



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