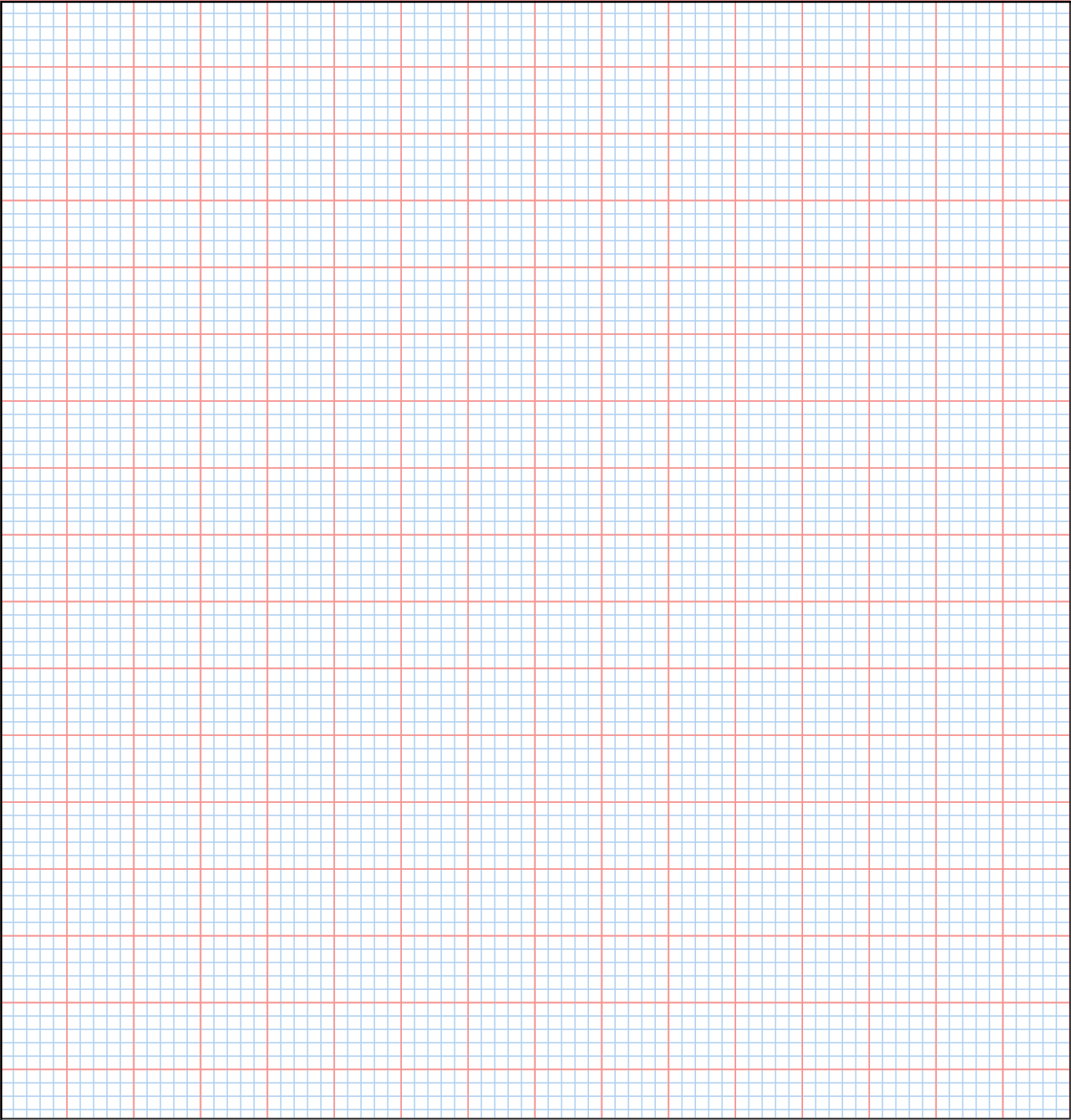
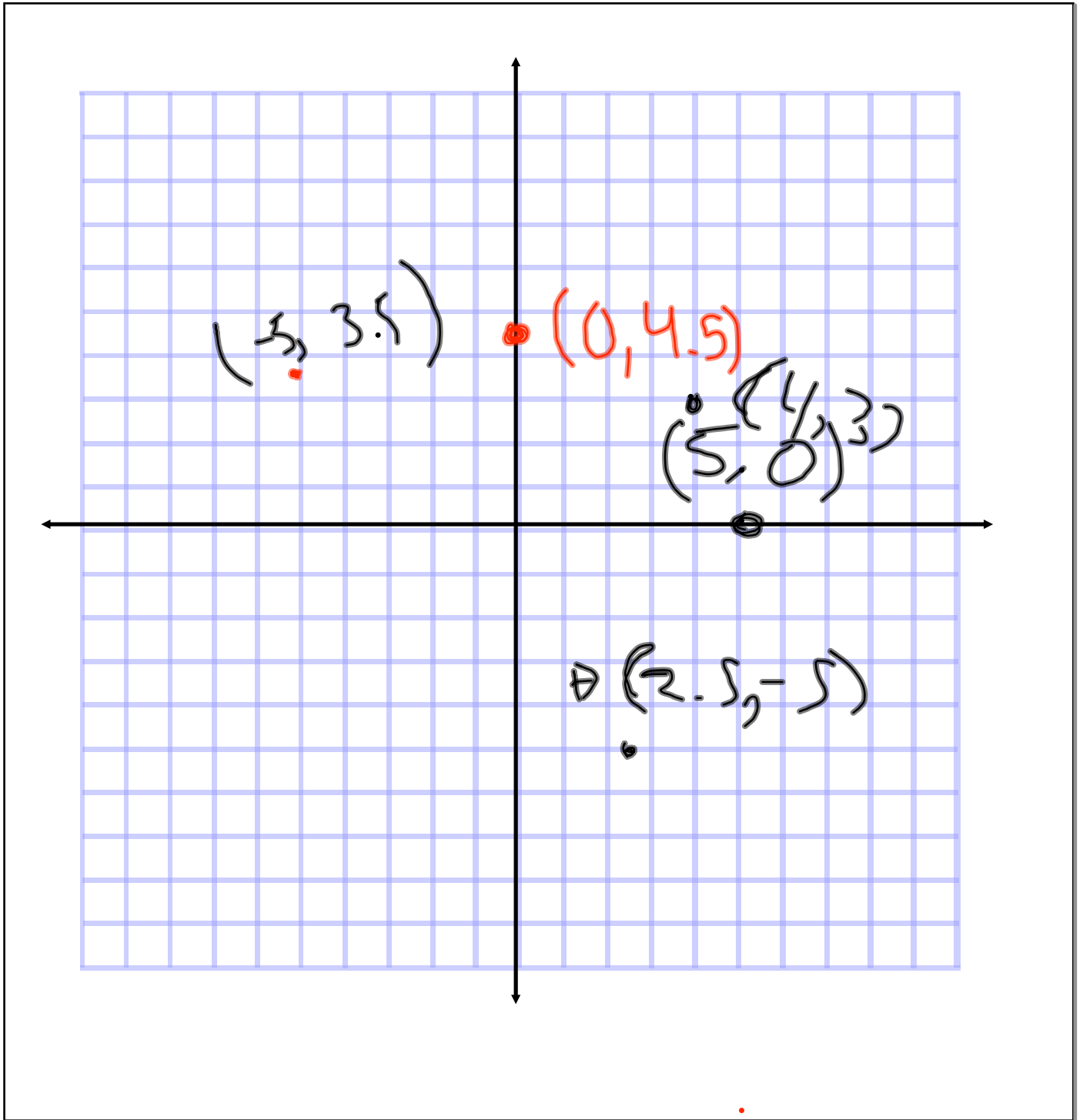


$y=mx+b$

May 20, 2008





A 36%

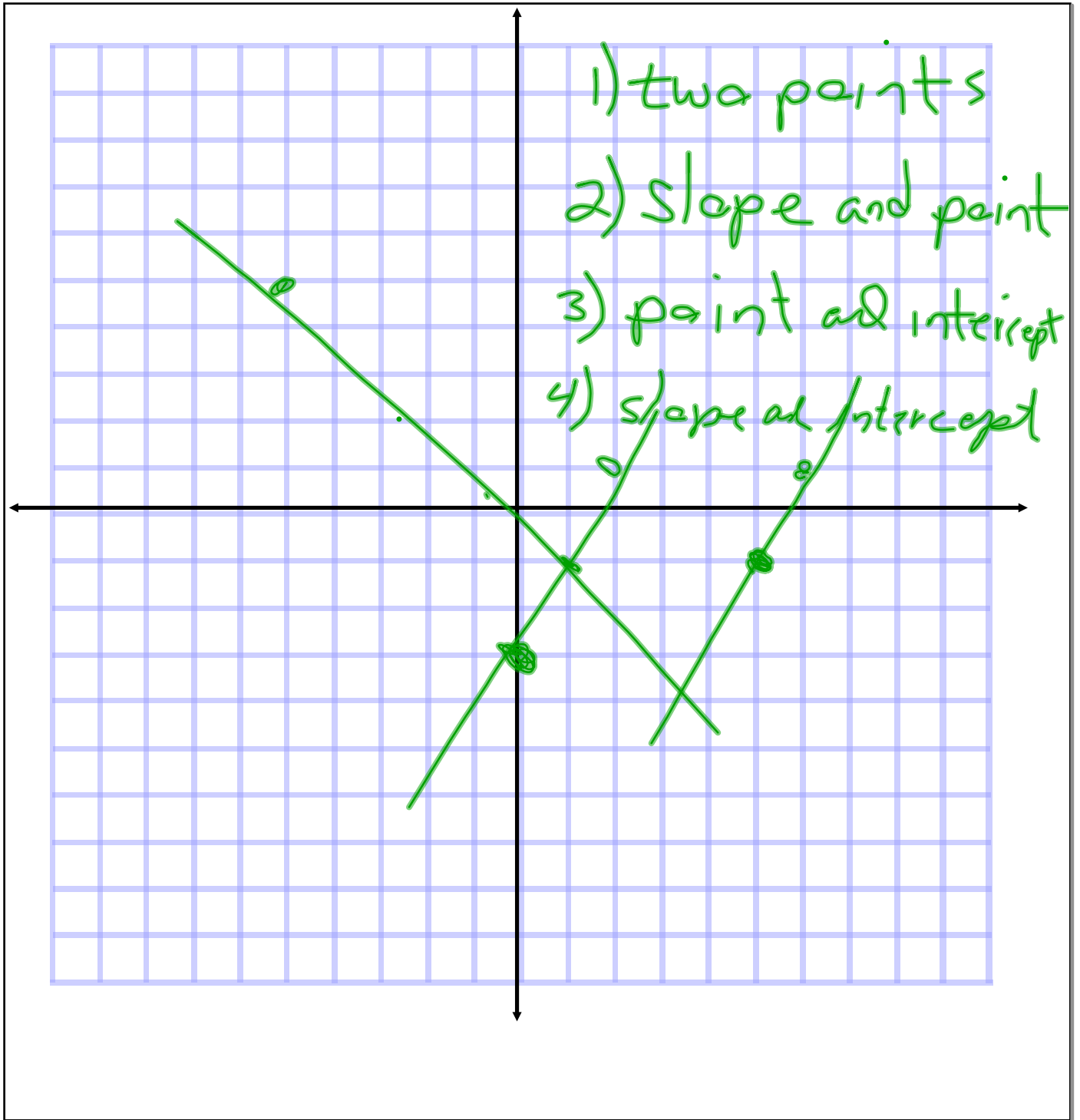
B 9%

C 45%

D 10%

linear equations

↳ equation of
a straight line



~~#~~ $y = mx + b$ → slope intercept

$$y = a + bx \rightarrow \text{intercept form}$$

$$y = mx + b$$

↓ ↓ ↓ ↓

y Slope x intercept

$$y = mx + b$$

$$(-3, 2)$$

$$y = 2x + 8$$

$$y = 2(-3) + 8$$

$$-6 + 8$$

$$\Rightarrow y = 2$$

$$y = 2x + 8$$

~~$$(2, 14)$$~~

$$y = 2(2) + 8$$

$$4 + 8$$

$$y = 12$$

$$(2, 12)$$

$$y = 2x + 8 \quad (9, 26)$$

$$(9, y)$$

$$y = 2(9) + 8$$

$$18 + 8$$

$$y = 26$$

$$y = 2x + 8$$

$$(x, 4) \quad (-2, 4)$$

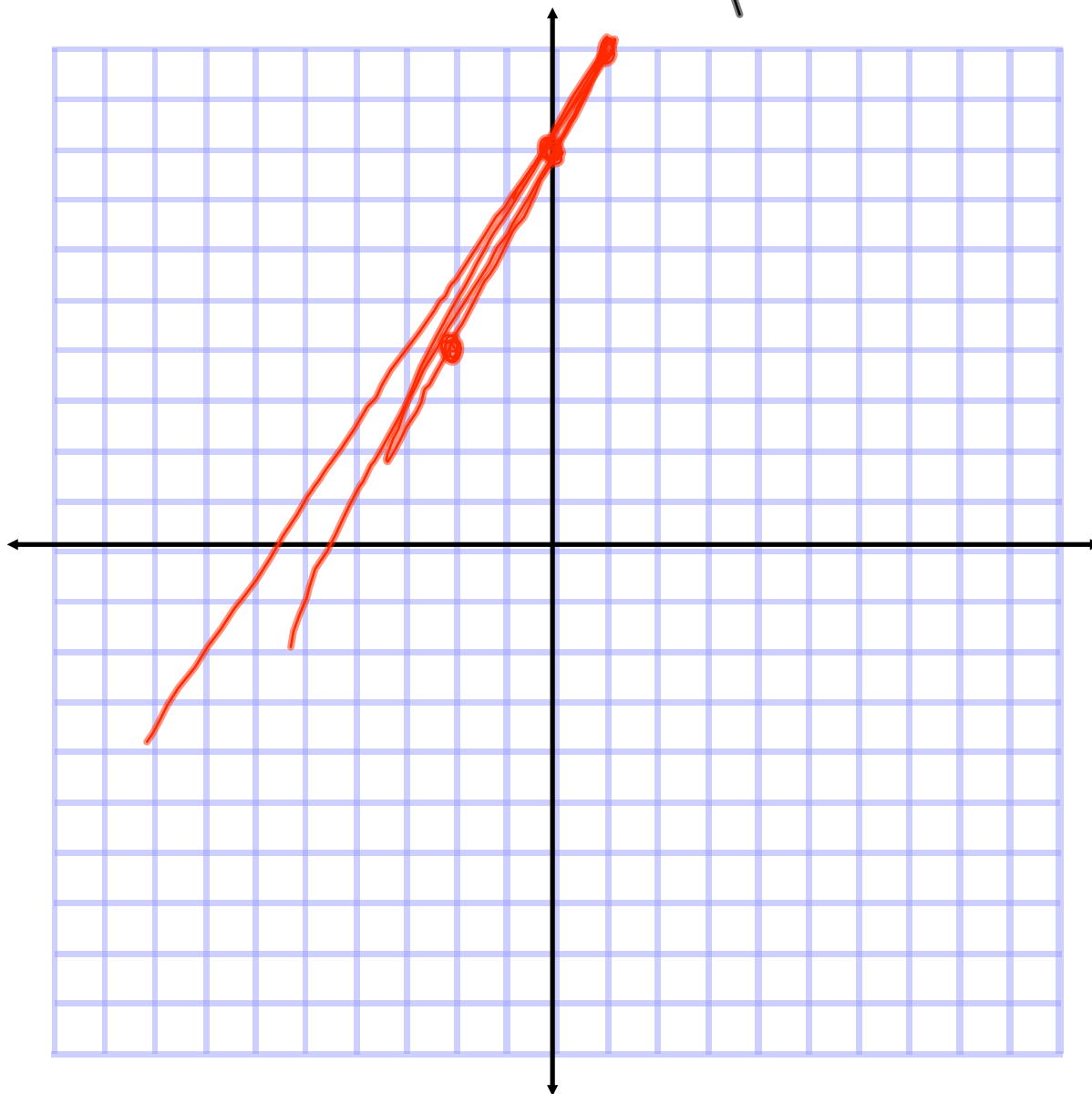
$$y = 2x + 8$$

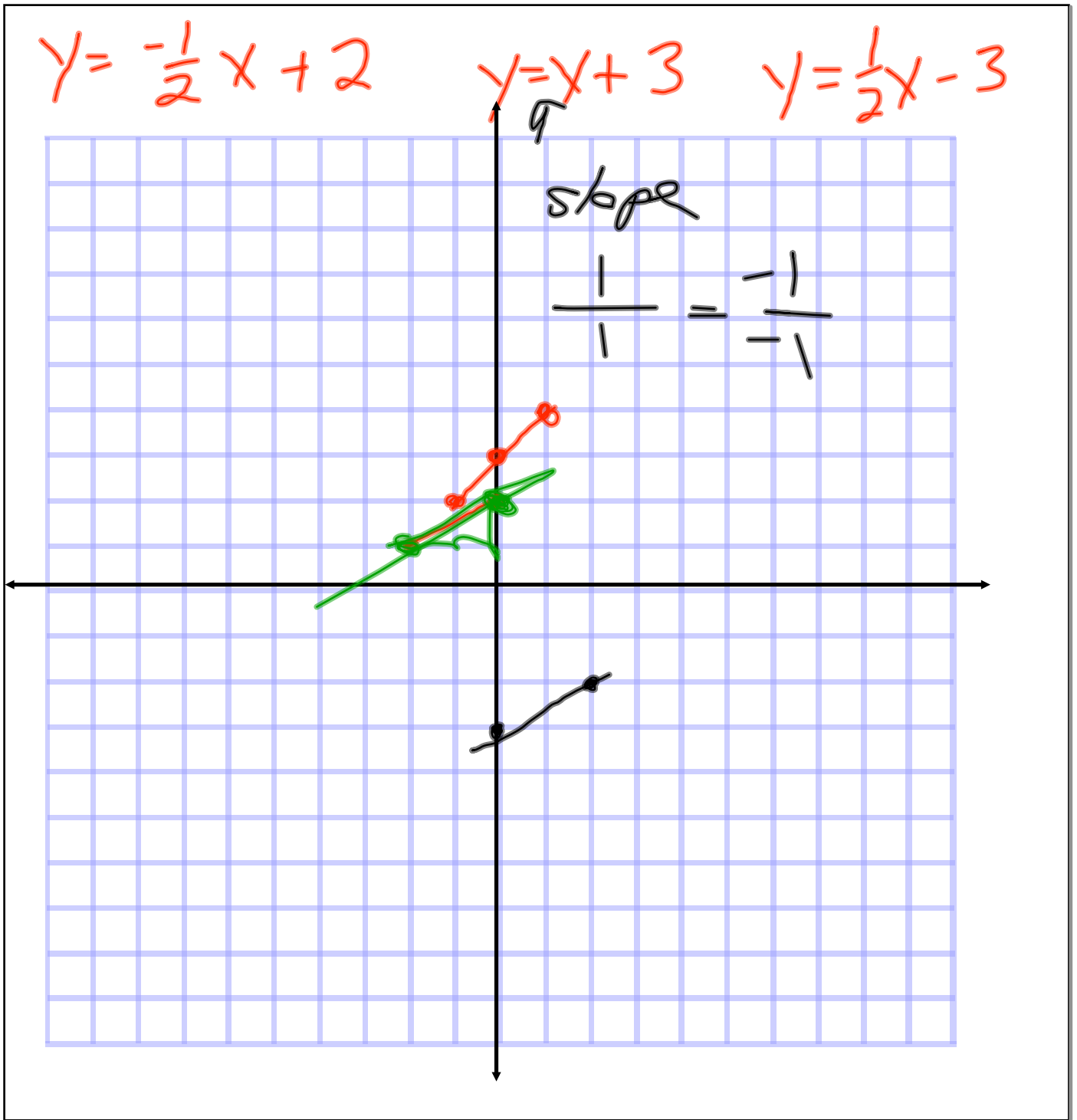
$$-8 \quad 4 = 2x + 8 \quad -8$$

$$\frac{-4}{2} = \frac{2x}{2}$$

$$-2 = x$$

$$y = 2x + 8 \quad \frac{2}{1} \quad (-2, 4)$$





Homework

Graph

$$y = -x + 3$$

$$y = \frac{3}{4}x - 1$$

$$y = 4x - 6$$

$$y = -3x - 5$$

$$y = \frac{-3}{4}x + 1$$

$$y = 2x - 4$$

$$(0, y)$$

$$(-3, y)$$

$$(x, 4)$$

$$(x, a)$$