

May 13, 2013 - MORE SLOPE

P 04/00

9. $\begin{matrix} x_1 & y_1 \\ (0, 0) \end{matrix} \begin{matrix} x_2 & y_2 \\ (2, 3) \end{matrix}$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 0}{2 - 0} = \frac{3}{2}$$

$$11. \begin{matrix} x_1 & y_1 \\ (1, & 3) \end{matrix} \begin{matrix} x_2 & y_2 \\ (2, & 7) \end{matrix}$$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7 - 3}{2 - 1} = \frac{4}{1} = 4$$

on the boards

13, 15, 17, 19,

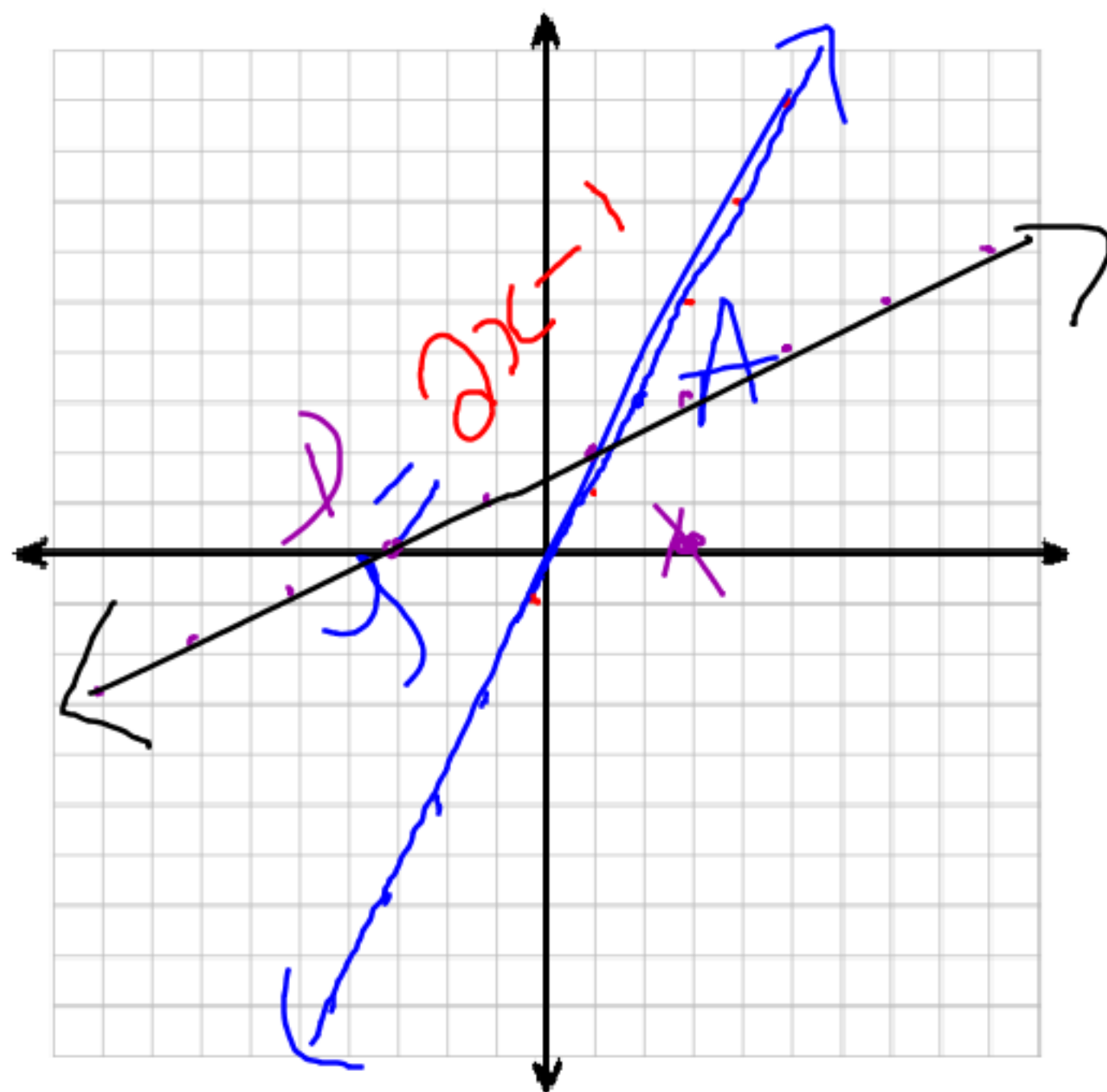
$$13) (x_1', y_1') = (5, 2) \quad (x_2', y_2') = (-3, 4)$$

$$M = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 2}{-3 - 5} = \frac{2}{-8} = -\frac{1}{4}$$

$$15) (-5, 7) (-4, -2)$$

$$m: \frac{\Delta x}{\Delta y} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 7}{-4 - (-5)} = \frac{-9}{-1} = 9$$

30



A (2,3)

$$m = \frac{2}{1} \frac{\text{Rise}}{\text{Run}}$$

31 Q (-3,0)

$$m = \frac{1}{2}$$

35

$$35) F(-3, 4)$$

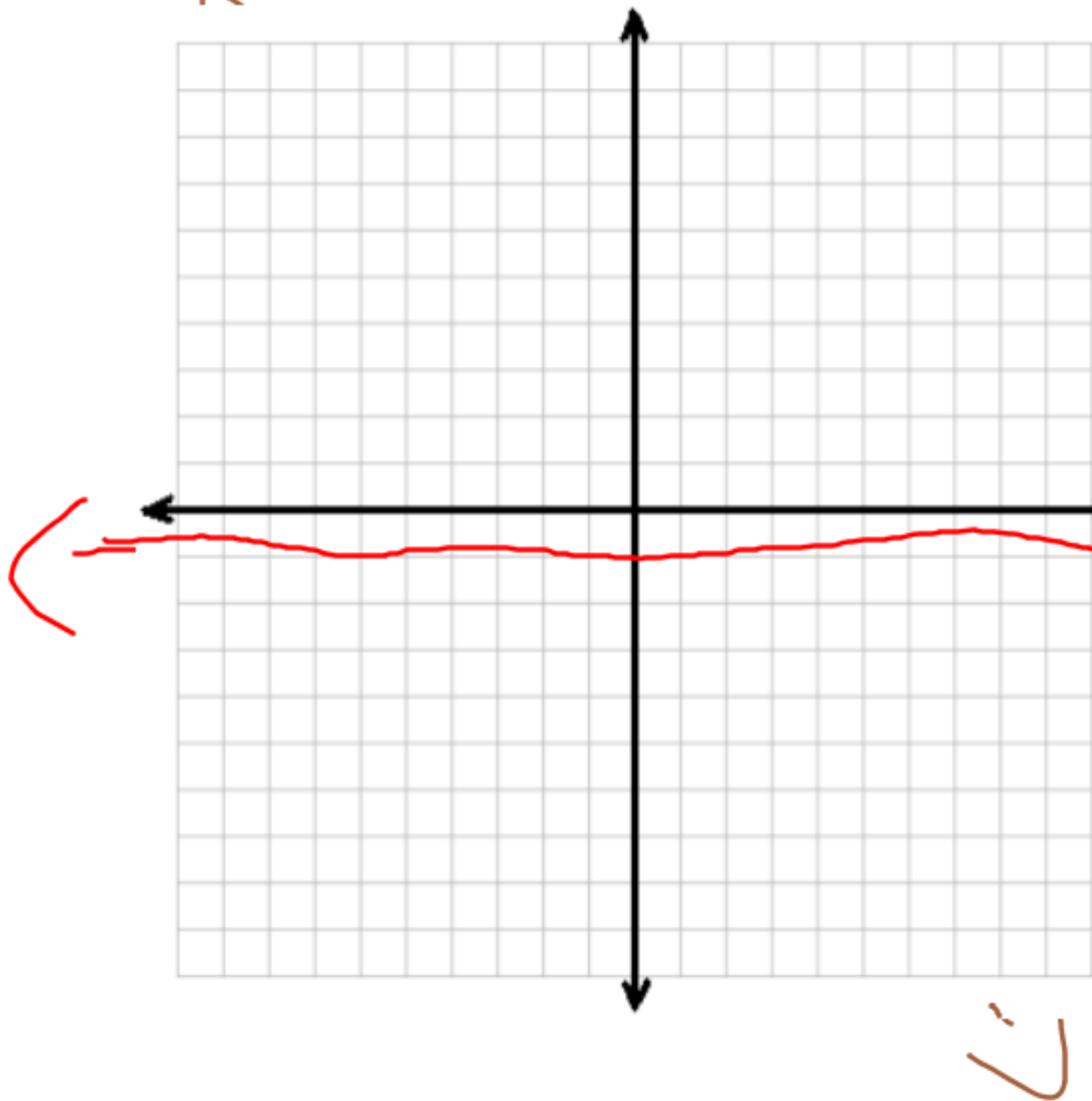
$$m = -\frac{4}{3} = \frac{\text{Rise}}{\text{run}}$$

$$36) G(4, -1)$$

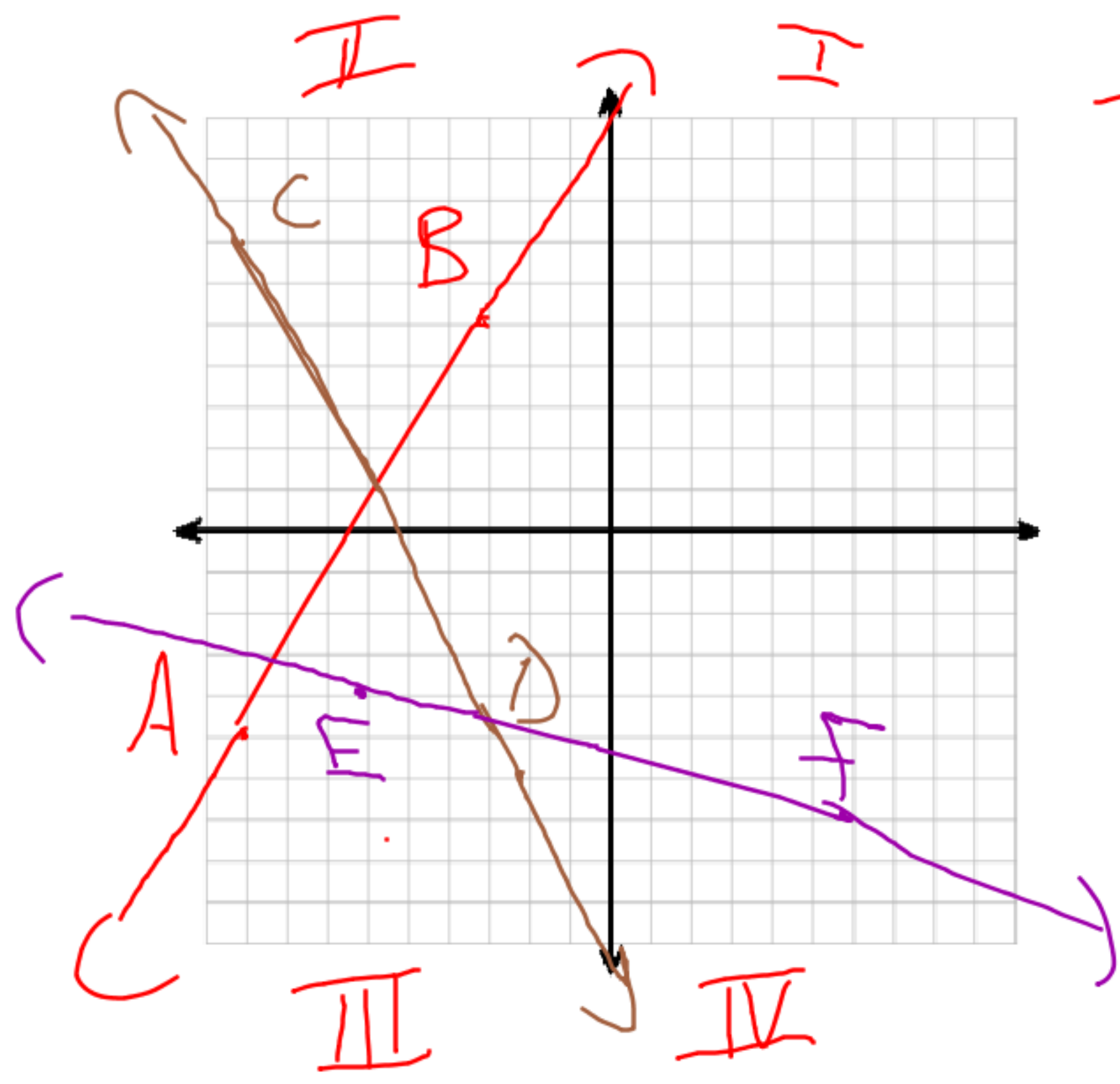
$$m = 0$$

$$37) H(-4, 5)$$

$$m = \text{undefined}$$



40 } b
c
d



41. a)

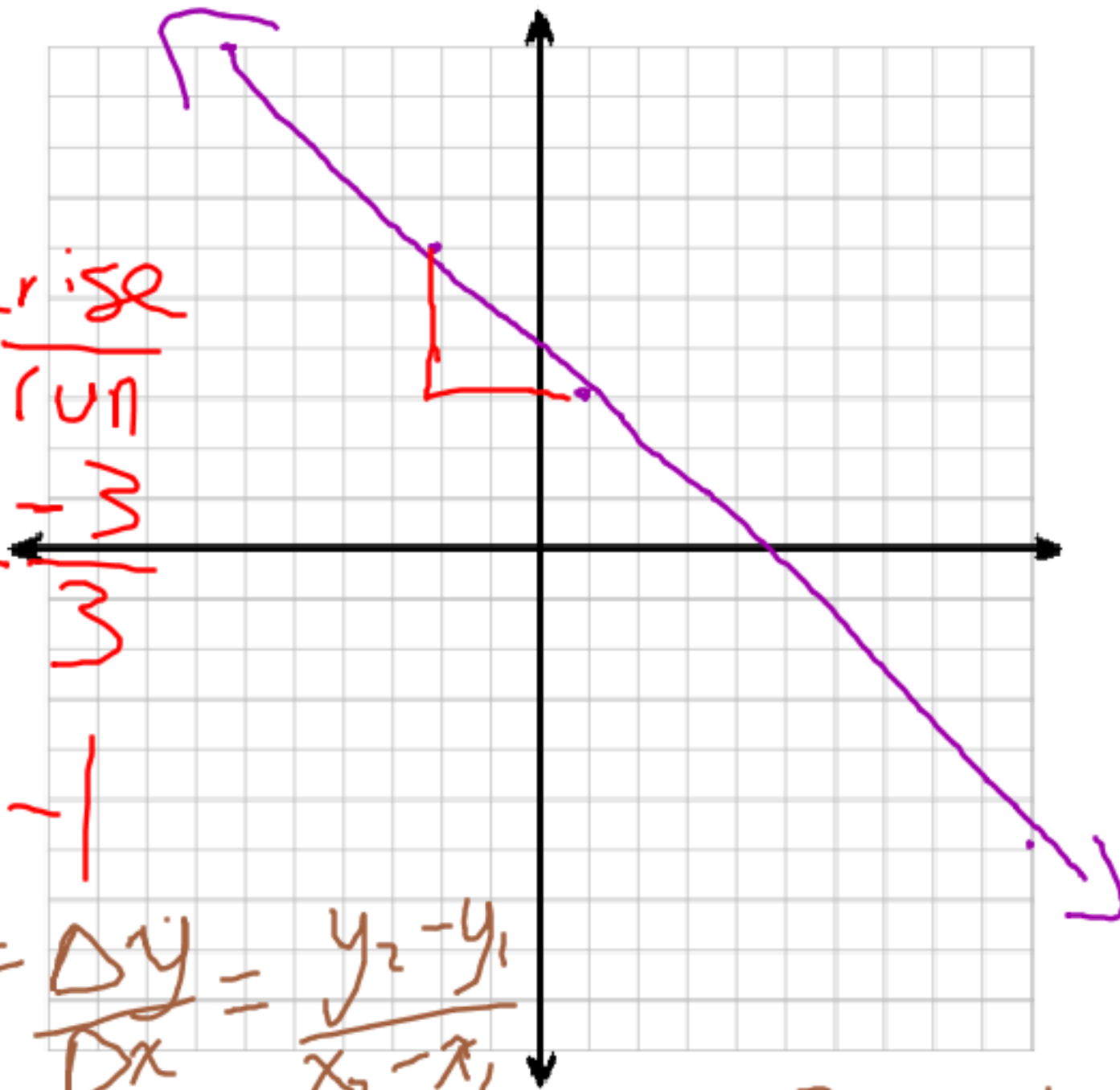
$$x + y = 4$$

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

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

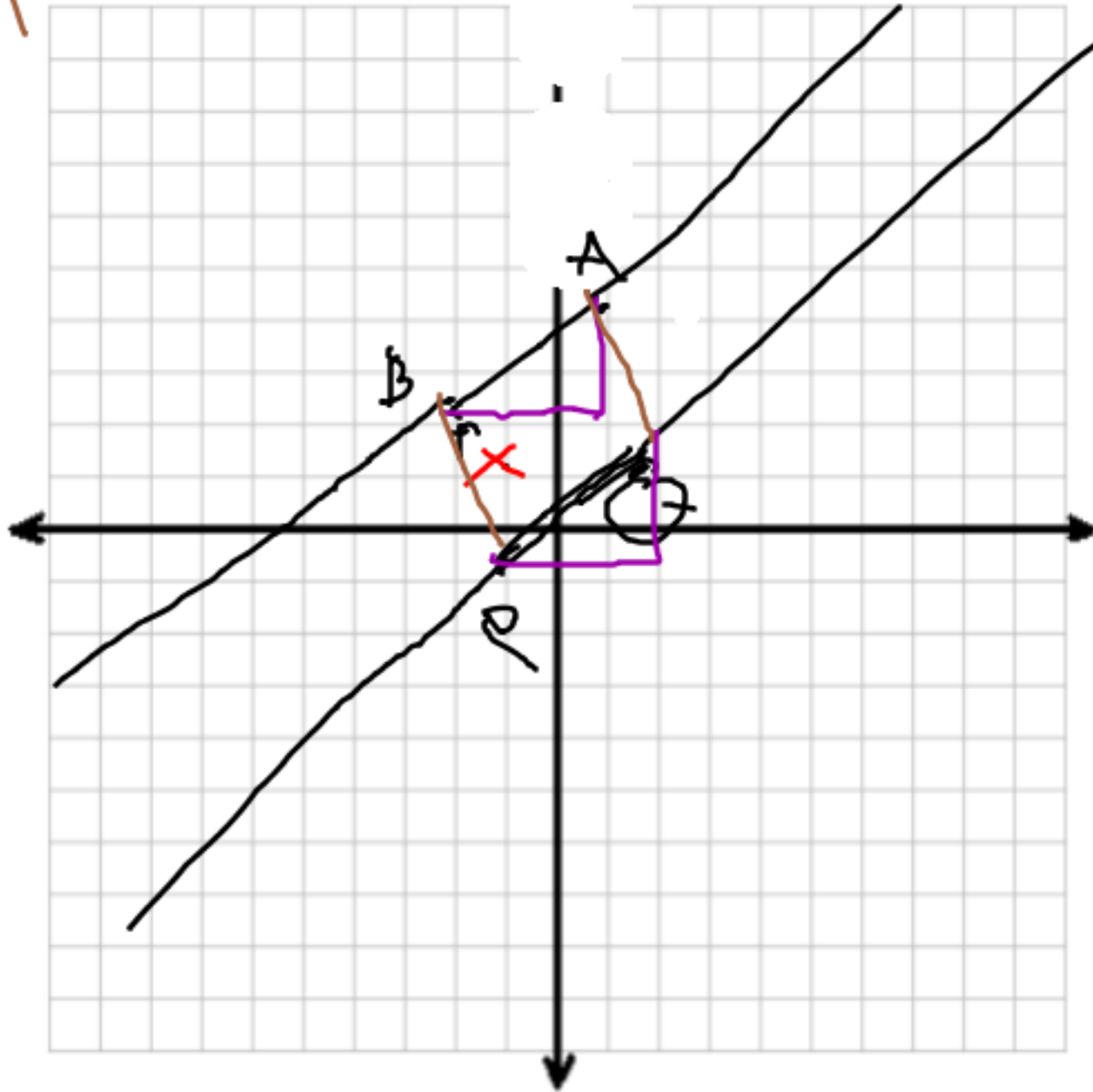
$$= -1$$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$
$$= \frac{6 - 3}{-2 - 1} = -\frac{3}{3} = -1$$



x	y
-2	6
-1	3

Q.



$$A(1, 4)$$

$$B(2, 2)$$

$$P(-1, -1)$$

$$Q(2, 1)$$

$$AB = PQ$$

$$m_{AB} = \frac{2}{3}$$

$$m_{PQ} = \frac{2}{3}$$

Homework

up to and including 39 from
on page 400 Box 1