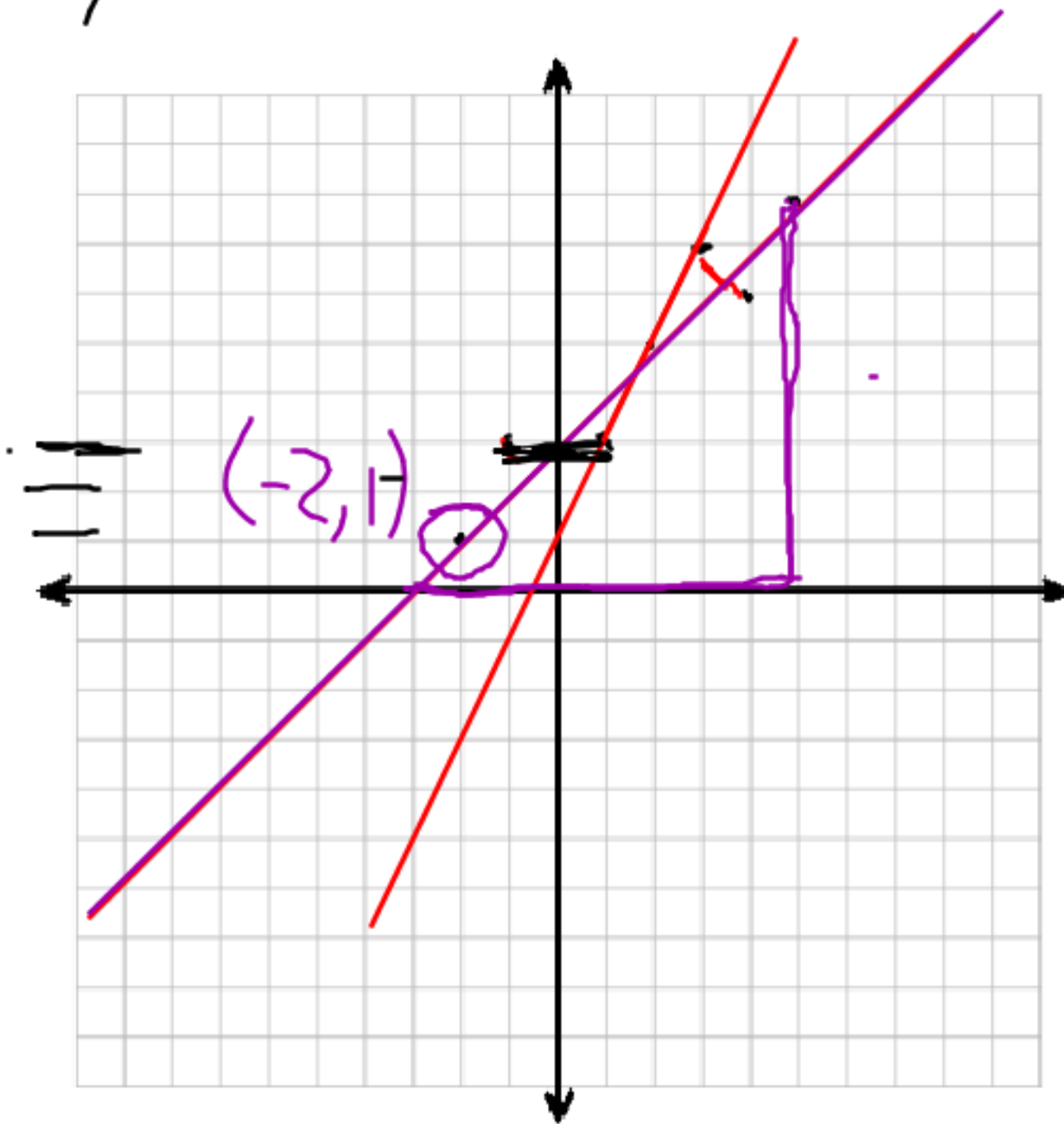


MAY 28 Finding POINT SLOPE FORM

(56)



$$y = x + 3$$

$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{2}{2} = 1$$
$$m = 1$$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$
$$1 = \frac{y - 1}{x - (-2)} = \frac{y - 1}{x + 2}$$

$$\frac{y-1}{x+2}$$

$$y-1 = x+2$$

+1 +1

$$y = x + 3$$

FROM PREV.

$$b) y = x + 3$$

-y -y

$$0 = x - y + 3$$

SLOPE / y-INTERCEPT

$$y = mx + b$$

↑
Slope

$$y = x + 3$$

Slope:

$$m = 1$$

$$b = 3$$

p4/28) ① $y = 3x + 1$ $y = mx + b$
 $m = 3$ $b = 1$

③ $y = -4/2x + 3$ $m = -4$ $b = 3$

⑥ $y + 4 = 5x$ $m = 5$
 -4 -4
 $y = 5x - 4$ $b = -4$

7

$$y - 2x = 0$$

$$+2x$$

$$m=2$$

$$b=0$$

$$y = 2x + 0 + 0 + 0 \dots$$

9

$$4x + 2y = 3$$

$$-4x$$

$$-4x$$

$$\frac{2y}{2} = -\frac{4x}{2} + \frac{3}{2}$$

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

$$m = -2$$

$$b = \frac{3}{2}$$

$$11. \overset{+}{3}x + 2y + \underset{-6}{6} = \underset{-6}{0} \overset{-3x}{-3x}$$

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

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

$$13. \overset{x}{x} - 3\overset{x^9}{y} - \overset{x}{9} = \underset{x}{0} \overset{x}{9}$$

$$\frac{-3y}{-3} = \frac{-x+9}{3 \cdot 3}$$

$$y = \overset{-2x}{-2x} \frac{3x+3}{x^1} \overset{-2x}{-2x}$$

$$15. \overset{-2x}{-2x} 22x + 0.5y - 1 = \underset{x}{0} \overset{-2x}{-2x}$$

$$\frac{0.5y}{0.5} = \frac{-22x+1}{0.5 \cdot 0.5}$$

$$y = -44x + 2$$

$$\textcircled{15} \quad 22x + 0.5y - 1 = 0$$

$$2(0.5y) = (-22x + 1)2$$

$$y = -44x + 2$$

$$m = -44$$
$$b = 2$$

⑮
d.f.f

$$22x + 0.5y - 1 = 0$$

$-0.5y$ $-0.5y$

$$\frac{-0.5y}{-0.5} = \frac{22x - 1}{-0.5}$$

$$y = -44x + 2$$

⑦ $\log(64/x) = (\log y)_{10}$ ①

$$\frac{64x}{8} = \frac{8y}{8}$$

②

$$y = 8x$$

19

$(1, 3)$ $(3, 5)$

x_1, y_1 x_2, y_2

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

$$m = 1$$

$$b = 2$$

$$1 = \frac{y - 5}{x - 3}$$

$$y - 5 = x - 3$$

$+5$ $+5$

$$y = x - 3 + 5$$
$$y = x + 2$$

22)

$$(-1, -2) (-5, -10)$$

$$m = \frac{-10 - (-2)}{-5 - (-1)} = \frac{-8}{-4} = 2$$

~~$$\frac{2}{1}x - (-10)$$~~
~~$$-(-5)$$~~
$$y + 10 = 2x + 10 - 10$$

$$y = 2x$$

$$m = 2$$

$$b = 0$$

$$23) \quad (2, 1) \quad (6, 4)$$

$$m = \frac{\Delta y}{\Delta x}$$

$$= \frac{4 - 1}{6 - 2}$$

$$= \frac{3}{4}$$

$$y - 1 = \frac{3}{4}(x - 2)$$

$$\frac{3}{4} = \frac{y - 1}{x - 2}$$

$$4(y - 1) = 3(x - 2)$$

$$4y - 4 = 3x - 6$$

$$4y = 3x - 2$$

$$\frac{4}{4}y = \frac{3x - 2}{4}$$

Box HOMEWORK

Up to and including
24

