

BE-1A | Tuesday 1-26-10

① GRAPH: $y = 3x - 2$

② GRAPH: $x = 5$

③ GRAPH: $x + y = 6$

④ GRAPH: $y = -1$

⑤ WHAT IS THE DOMAIN AND RANGE
OF THIS RELATION: $\{(0, 8), (9, -2), (4, 2)\}$?
IS IT A FUNCTION? IF NOT, WHY NOT?

• Homework review: Pg 275 #14-22.

1.
WRITING THE EOL if you know
two points...

I CALL THIS THE " $y = mx + b$ twice"
METHOD.

(EX) Find EOL through $(-3, -1), (6, -4)$

STEP 1 Find m $(-3, -1), (6, -4)$

$\frac{-4 - (-1)}{6 - (-3)} = \frac{-4 + 1}{6 + 3} = \frac{-3}{9} = \frac{-1}{3} = m$

circle 3

STEP 2

$y = mx + b$

PICK
ONE POINT,
USE (x, y)
AND m

I CHOOSE $(6, -4)$, $m = -\frac{1}{3}$

x, y

$$-4 = -\frac{1}{3} \cdot 6 + b$$

$$-4 = -\frac{6}{3} + b$$

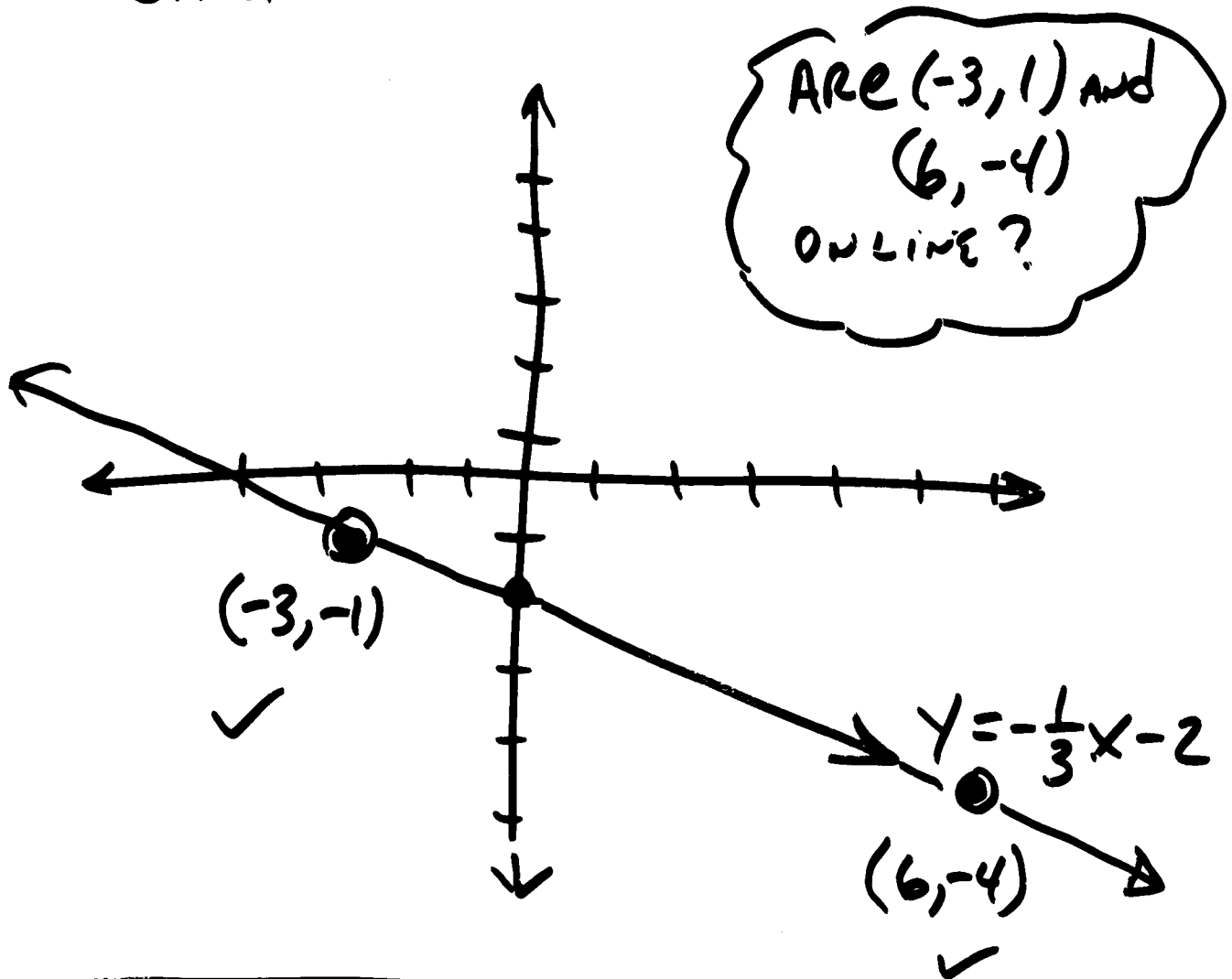
$$-4 = -2 + b$$

$+2 \quad +2$

$$\boxed{-2 = b}$$

STEP 3 Use m, b in $y = mx + b \Rightarrow \boxed{y = -\frac{1}{3}x - 2}$

Check if Answer makes sense:



Practice: find EOL through:

Ⓔ $(5, 1), (8, -2)$

$y = -x + 6$

Ⓔ $(6, 0), (0, 4)$

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

Ⓔ $(5, 2), (-7, -4)$

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

Homework: Pg 283 # 21 to 26