*Slope – Intercept Form*

Review: y = mx + b

Graph.

1. y =  2. y = 2x – 4 3. y = 

**New:**  ***Point – Slope Form***

y – **y1** = **m**(x – **x1**)

4. y – 3 = 2(x – 1) 5. y – 4 = –1(x + 2) 6. y + 3 = 

m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_

Point ( , ) Point ( , ) Point ( , )

**Practice:**

7. y – 1 =  8. y – 3 = 2x 9. y = – (x – 2)

m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_

Point ( , ) Point ( , ) Point ( , )

Given each of the following points that a line goes through and the slope of the line, write the equation in **Point–Slope Form**.

Point Slope Point–Slope Form

(–2, 5) –4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(7, –3) 2/3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(0, 8) –1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(–2, 0) ¼ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(3, –6) 0 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

( , ) \_\_\_\_\_ y – 5 = –6(x + 10)

( , ) \_\_\_\_\_ y + 2 = –(x – 7)

( , ) \_\_\_\_\_ y – 4 = 0

( , ) \_\_\_\_\_ y + 5 = x