Name : _____

Slope Between Two Points

For 1–6 find the slope between two points using the formula shown below. Show all of your work & reduce.

Slope
$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{Change \ in \ y's}{Change \ in \ x's} = \frac{Rise}{Run} = \frac{Fall}{Run} = \frac{\Delta \ y's}{\Delta \ x's}$$

1. (10, 3) & (7, 9)

#1: _____

2. (4, -2) & (4, 3)

#2: _____

3. (2, 10) & (8, 7)

#3: _____

4. (7, 3) & (8, 5)

#4:

5. (12, 11) & (9, 5)

#5: ______

6. (6,-2) & (3,-2)

#6:

Find the slope between two points and then write an equation in Slope–Intercept Form (y = mx + b).

Example: (5, -1) & (-10, -7)

Step 1: Find the slope using the formula $m = \frac{y_2 - y_1}{x_2 - x_1}$

Step 2: Pick one of the points: (,)

Step 3: Use the Slope you found in Step 1 and the point in Step 2 to substitute the values into y = mx + b and then solve for b.

Step 4: Write your answer in Slope–Intercept Form y = x +

For 7–12, find the slope between two points and then write an equation in Slope–Intercept Form (y = mx + b). Show all of your work & reduce.

#7: ______

#8: _____

#9: _____

#10: _____

#11: _____

#12: _____