

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Equations of Lines

Find the equation of the line that goes through the points given. The equation of a line is  $y = mx + b$ , where you need to find the  $m$  and the  $b$ .

1. (4, 7) and (8, 9) slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

2. (3, 1) and (9, 9) slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

3. (-6, -2) and (3, -8) slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

4. (0, 7) and (1, 2) slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

5. (-8, 6) and (-4, 2) slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

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6.  $(-6, -4)$  and  $(-3, 3)$  slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_  
equation: \_\_\_\_\_

7.  $(3, -4)$  and  $(9, 4)$  slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_  
equation: \_\_\_\_\_

8.  $(6, 0)$  and  $(2, 6)$  slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_  
equation: \_\_\_\_\_

9.  $(-6, 5)$  and  $(-2, 3)$  slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_  
equation: \_\_\_\_\_

10.  $(-10, -6)$  and  $(5, 0)$  slope: \_\_\_\_\_ y-intercept: \_\_\_\_\_  
equation: \_\_\_\_\_