

# Algebra I

## 5.4 Warm-up #2

NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

Matching.

- |                               |                           |
|-------------------------------|---------------------------|
| 1. _____ slope-intercept form | A. $y - y_1 = m(x - x_1)$ |
| 2. _____ standard form        | B. $y = mx + b$           |
| 3. _____ point-slope form     | C. $Ax + By = C$          |

Write a **slope-intercept form** of an equation given the slope and the y-intercept.

4. slope = 2; y-intercept (0, -5) \_\_\_\_\_  
 5. slope =  $-\frac{1}{2}$ ; y-intercept = 7 \_\_\_\_\_

Write a **slope-intercept form** AND a **point-slope form** of an equation given two points.

6. (5, 9) and (0, 2) slope-intercept form: \_\_\_\_\_  
 m = \_\_\_\_\_ point-slope form: \_\_\_\_\_

over

Using the point-slope form of an equation  $y - y_1 = m(x - x_1)$ , identify the slope and a point on the line.

- |                       |                        |                                 |
|-----------------------|------------------------|---------------------------------|
| 7. $y - 4 = 2(x - 7)$ | 8. $y - 8 = -3(x + 9)$ | 9. $y + 4 = \frac{1}{2}(x + 3)$ |
| slope = _____         | slope = _____          | slope = _____                   |
| point ( , )           | point ( , )            | point ( , )                     |

Find the **intercepts** of each line.

10.  $2x + 5y = -40$

x	y
0	0

(0, ) is the y-intercept  
 ( , 0) is the x-intercept

12.  $8x + 2y = -32$

x	y
0	0

(0, ) is the y-intercept  
 ( , 0) is the x-intercept

11.  $3x - 4y = 24$

x	y
0	0

(0, ) is the y-intercept  
 ( , 0) is the x-intercept

13.  $x - 3y = -6$

x	y
0	0

(0, ) is the y-intercept  
 ( , 0) is the x-intercept