

**Algebra I**  
**Slope Intercept Form**  
**Worksheet 1**

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

What is slope intercept form? \_\_\_\_\_

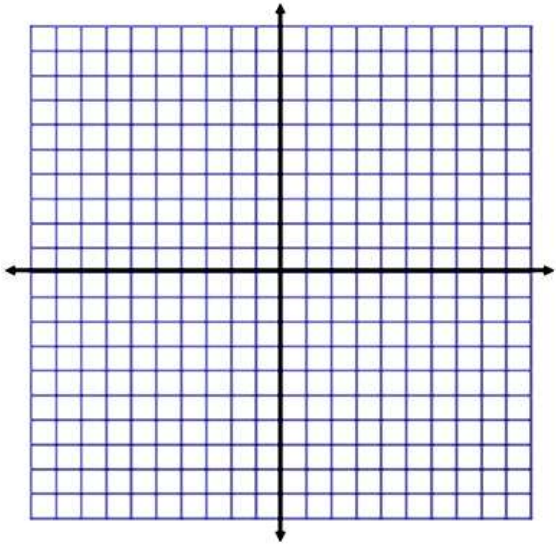
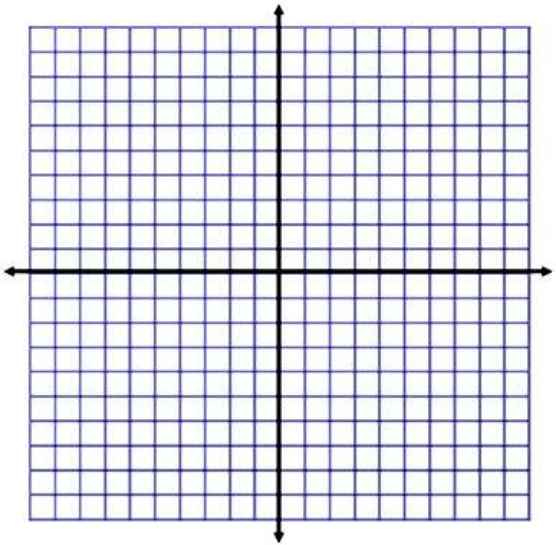
What does the  $m$  represent: \_\_\_\_\_

What does the  $b$  represent: \_\_\_\_\_

Put each equation into slope intercept form. Leave any fractions as simplified improper fractions.

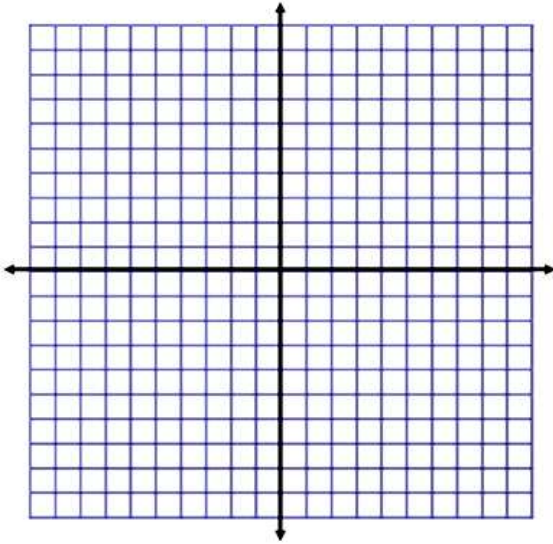
1. $y - 3x = 19$	2. $2y - 8x = 20$	3. $15 = -3y + 21x$
4. $5x - 6y = 22$	5. $-y = -7x + 32$	6. $7y + 42 = -14x$

**Graph each equation. State the slope and y- intercept.**

1. $y = 2x + 5$  Slope : _____ y- int: _____  	2. $-y = \frac{2}{3}x + 4$  Slope : _____ y- int: _____  
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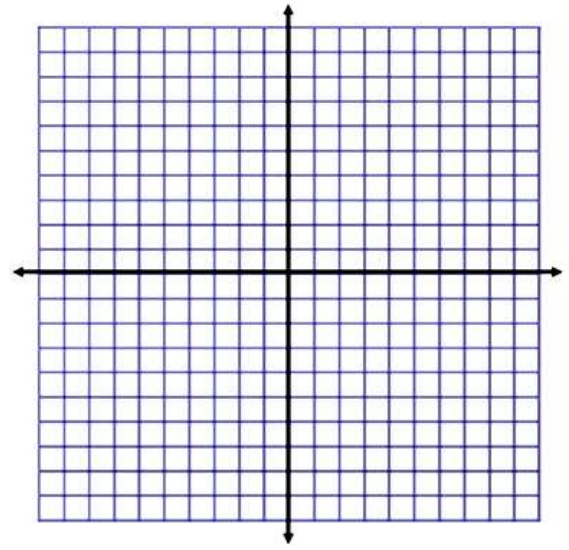
3.  $3y - 4x = 12$

Slope : \_\_\_\_\_ y- int: \_\_\_\_\_



4.  $5x + 2y = -10$

Slope : \_\_\_\_\_ y- int: \_\_\_\_\_



Write the equation of a line with the given information:

1. Slope of  $-\frac{5}{3}$ , through  $(0, -4)$

2. Through the points  $(-1, -9)$  and  $(2, 6)$

3. Through the points  $(-1, 10)$  and  $(3, 2)$

4. Through the points  $(3, 8)$  and  $(-3, 4)$

5. Through the points  $(-2, 27)$  and  $(2, -9)$