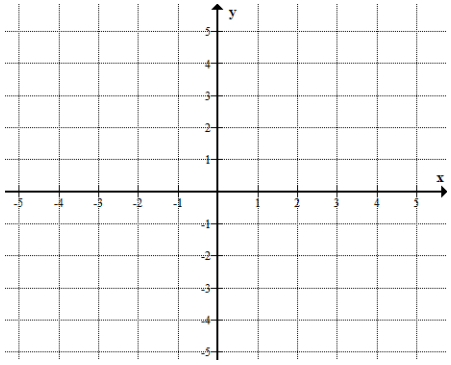
MAT126 Math Interludes
Topic #10: Graping Lines in Standard Form

Student Name:_____
Due Date:_____

**Rewrite the equation of each line in slope-intercept form and state the slope and the y-intercept. Write the y-intercept as an ordered pair. Graph each line. Plot at least 3 points for each line and use a ruler. Use the space below each graph to show your work.**

1.

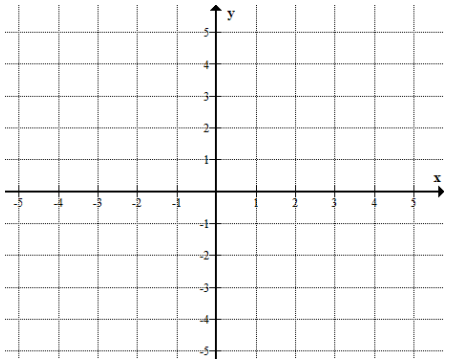


Equation: $6x - 3y = -15$

Slope:_____

y-intercept:_____

2.

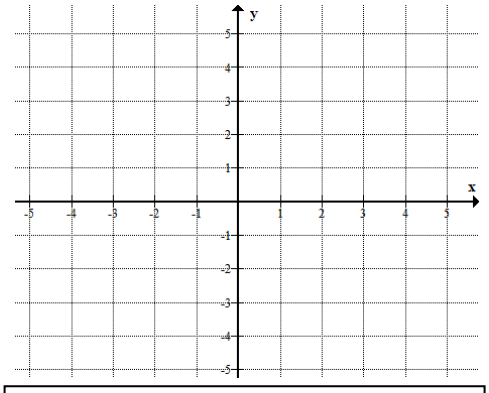


Equation: $4x + 12y = 12$

Slope:_____

y-intercept:_____

3.

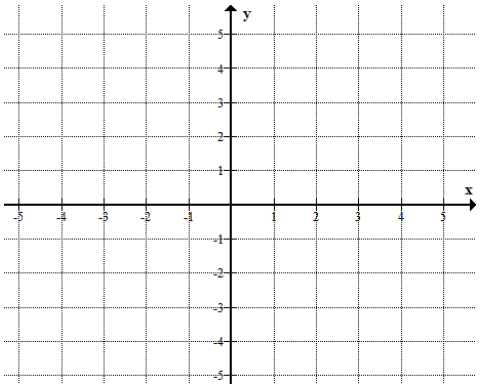


Equation: $2x - y = 3$

Slope:_____

y-intercept:_____

4.



Equation: $x + 2y = 4$

Slope:_____

y-intercept:_____

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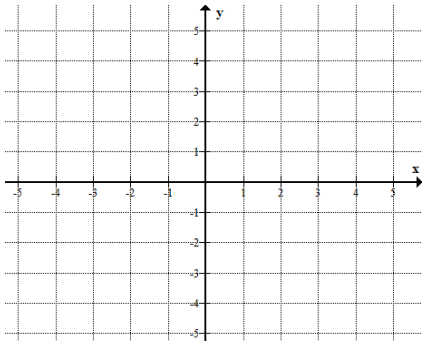
**Find the x-intercept and the y-intercept of each line below. State the intercepts as ordered pairs. Graph each line by plotting the intercepts. Use a ruler! Use the space below each graph to show your work.**

5.

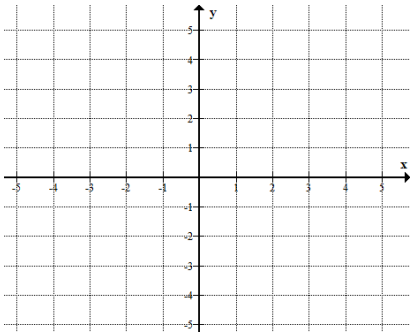


Equation: $x - 2y = 6$

x-intercept:_____

y-intercept:_____

6.

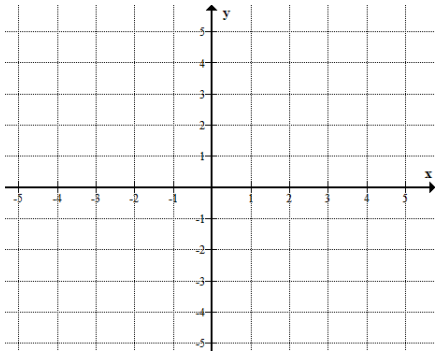


Equation: $2x + 3y = -12$

x-intercept:_____

y-intercept:_____

7.

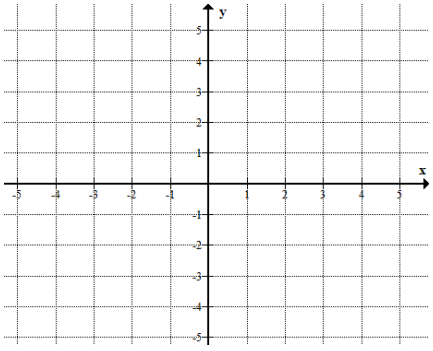


Equation: $3x - y = -3$

x-intercept:_____

y-intercept:_____

8.



Equation: $2x + 4y = 8$

x-intercept:_____

y-intercept:_____