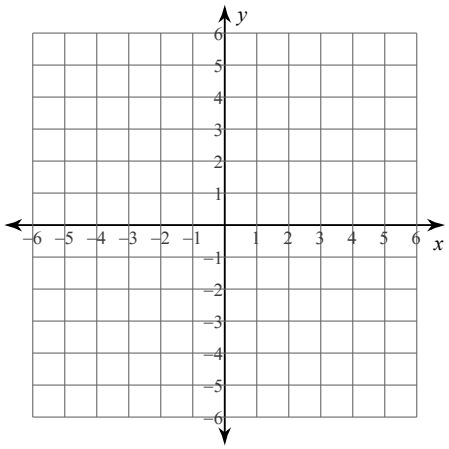
Kuta Software - Infinite Pre-Algebra Name_____

Graphing Lines in Standard Form

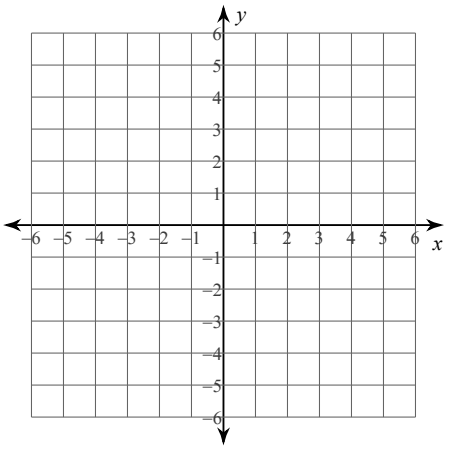
Date_____ Period____

Sketch the graph of each line.

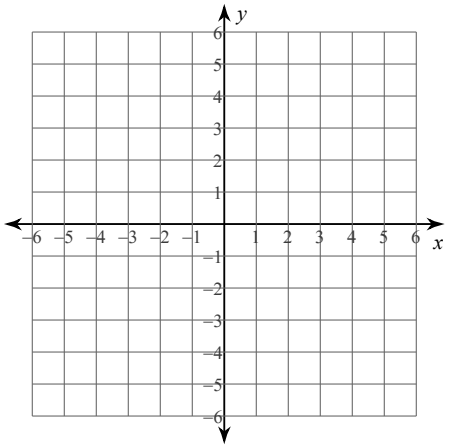
1) $4x + y = 0$



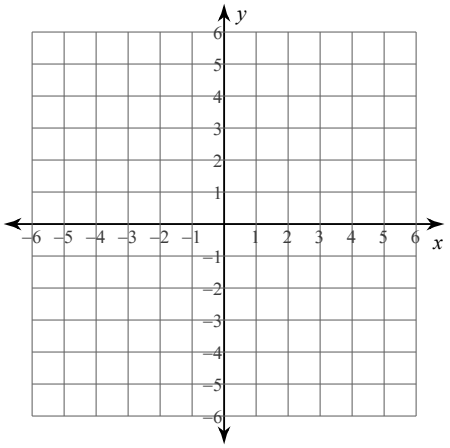
2) $10x - 3y = -15$



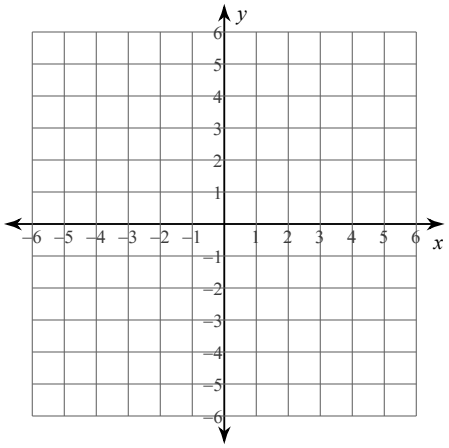
3) $x + y = -3$



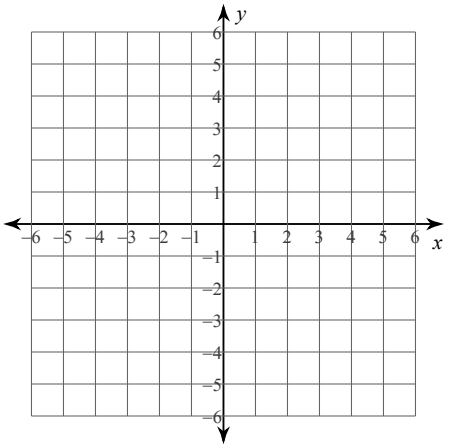
4) $x = 5$



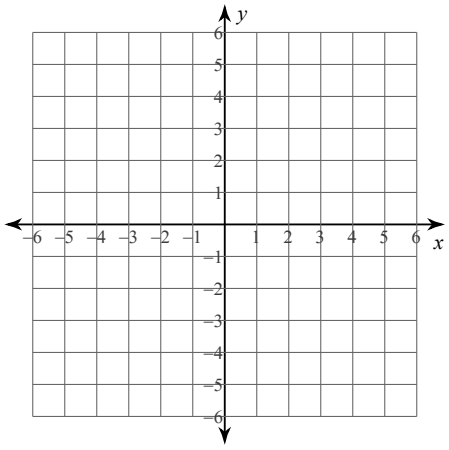
5) $7x + 2y = -10$



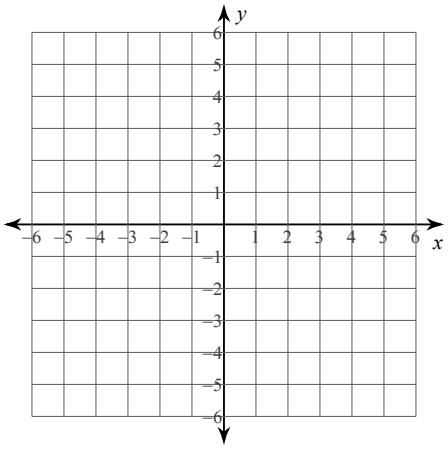
6) $x - 2y = -6$



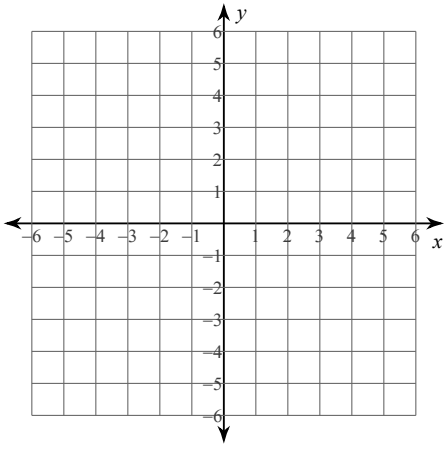
7) $x + y = 0$



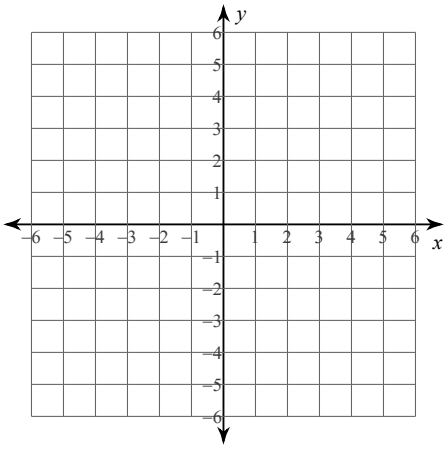
8) $9x + y = 4$



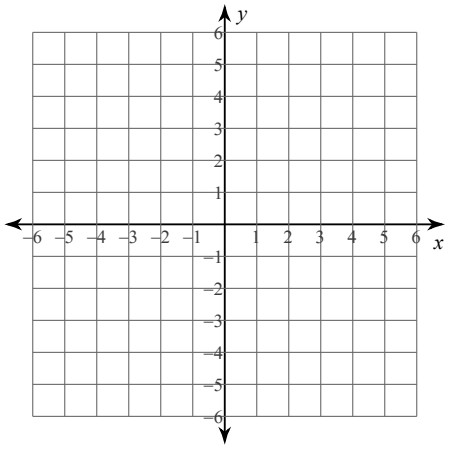
9) $y = 5$



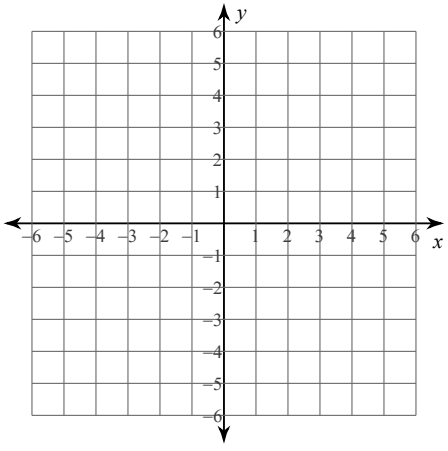
10) $x + 4y = -12$



11) $x - 3y = 3$



12) $x + y = 4$



Graphing Word Problems-Standard Form

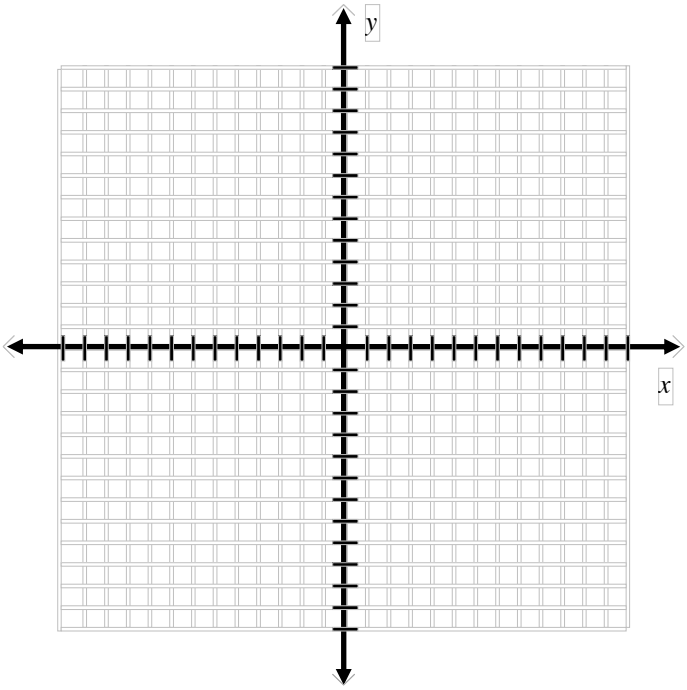
1. You are helping to plan an awards banquet for your school, and you need to rent tables to seat 180 people. Tables come in two sizes. Small tables seat 4 people and large tables seat 6 people.

   *Write an equation modeling the situation:

   *Find the intercepts of the graph of the equation:

   x-intercept: *y*-intercept:

   *Graph the equation:



   Give 3 possible combinations of tables rented.

   State the domain and the range of the equation:

   Explain what the intercepts mean in this situation:

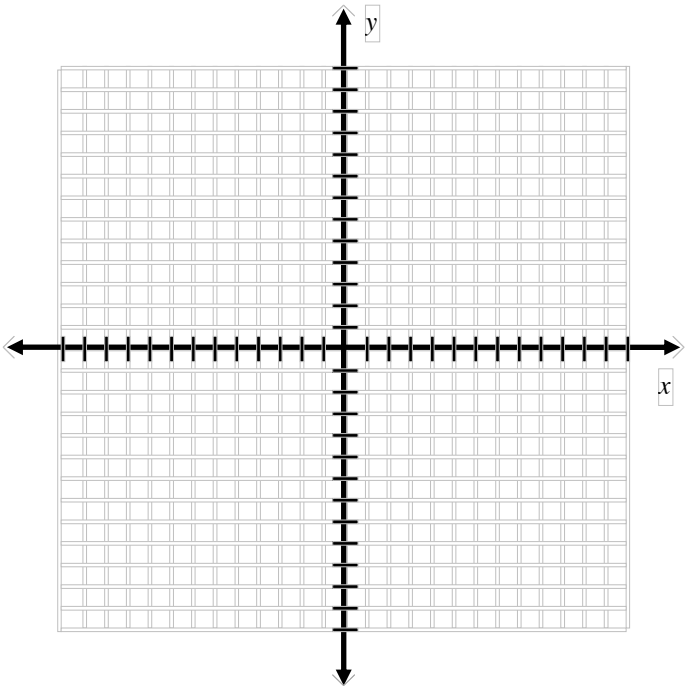
2. You make and sell decorative bows. You sell small bows for $3 and large bows for $5. You want to earn $60 per week.

*Write an equation modeling the situation:

*Find the intercepts of the graph of the equation:

x-intercept: *y*-intercept:

*Graph the equation:



Give 3 possible combinations of bows that you can sell.

State the domain and the range of the equation:

Explain what the intercepts mean in this situation: