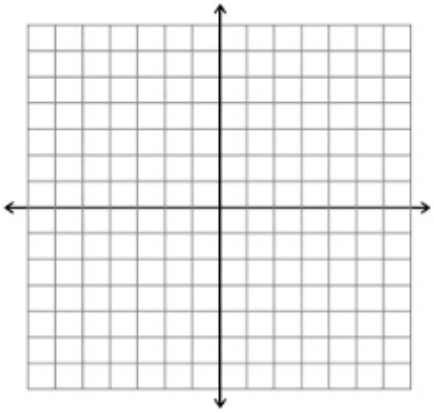
SRHS Math 1 – Chapter 5 REVIEW

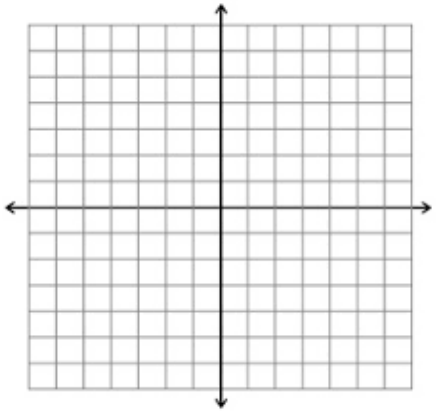
YOU MUST SHOW APPROPRIATE ORGANIZED AND DETAILED WORK TO RECEIVE CREDIT FOR EACH PROBLEM

Solve each system of linear equations by graphing:

$y = x - 2 \; and \; y = -3x + 2$



$5x + 5y = 15 \; and \; 2x - 2y = 10$



Solve each system of linear equations algebraically [substitution recommended]

$y = 5x + 7 \; and \; 3x + y = -9$

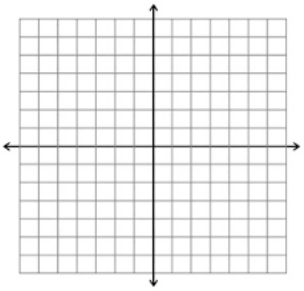
$2x + 3y = 4 \; and \; 3x + y = 6$

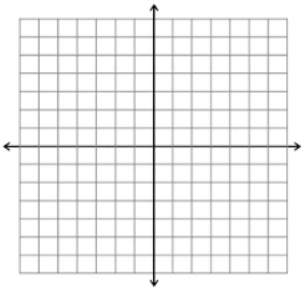
Solve each system of linear equations algebraically [elimination recommended]

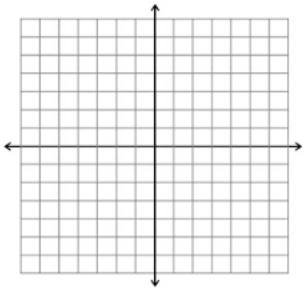
$9x - 2y = 34 \; and \; 5x + 2y = -6$

$8x - 7y = -3 \; and \; 6x - 5y = -1$

Bases on the graphs, determine the number of solutions [No solutions, 1 solutions, or infinitely many solutions]







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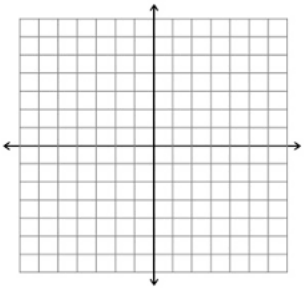
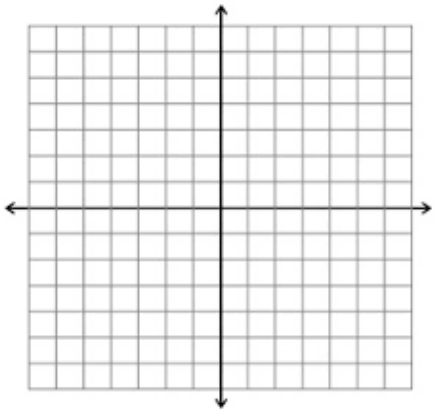
Yolla Bolly Wilderness area has enough space to support the 213 of the two largest mammals in the area – Wolverines and Bears. However, they both like to eat wild Huckleberries. Bears eat about 2 pounds of Huckleberries a day and Wolverines eat about 5 pounds a day. There are about 817 pounds of Huckleberries available each day. Write [BUT DO NOT SOLVE] a system of linear equations to figure out how many Bears and Wolverines Yolla Bolly Wolderness can support.

Which of following points are solutions to the inequality graphed below ? Circle all that apply



(0, 2) (0, 0) (-3, 1) (5, 0) (0, 5)

Graph the inequality: $y > \frac{5}{4}x - 3$



Solve each equation:

$5(2x + 7) = 30$

$\frac{3x+2}{5} + 4 = 1$

Solve the equation:

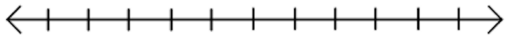
$|3x + 2| - 1 = 5$

Solve for y:

$5x - 7y = 13$

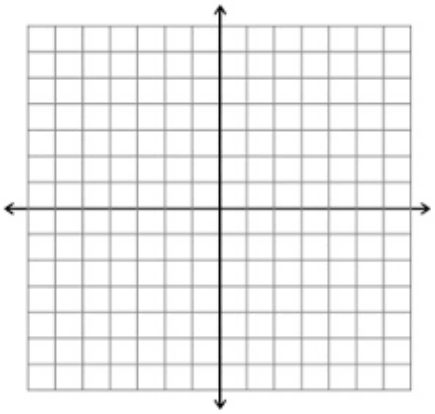
Graph the inequality:

$$2x + 5 \geq 13$$



Evaluate the function $f(x) = -11x + 5$ for $x = 7$

Graph the line: $y = -4x + 2$



Find the slope of the line between the points: (6, 5) and (2, 8)

Write the equation of the line through the point (-5, 1) and parallel to the line: $y = 11x + 87$

Sketch a scatter plot that shows a no correlation: