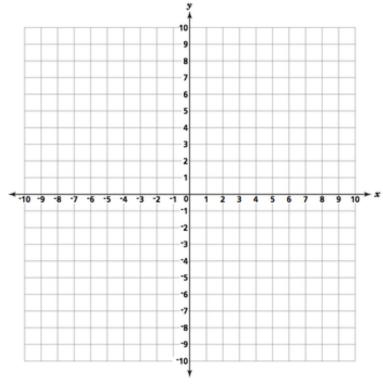
Finite Math - J-term 2019 Lines and Inequalities Worksheet Due January 21, 2019

Name:			
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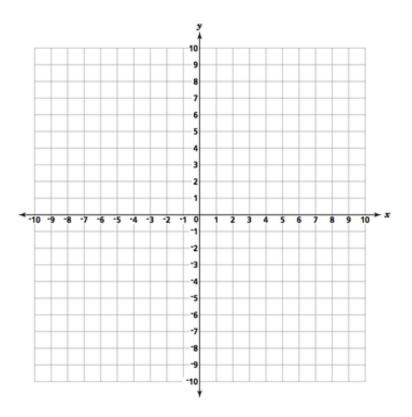
HOMEWORK (YOU DON'T HAVE TO TURN IN THESE HOMEWORK PROBLEMS, THESE ARE JUST FOR EXTRA PRACTICE.)

- Read Section 1.2, do problems 5, 7, 29, 30, 31, 32, 33, 41
- Graph the following lines:
 - (1) y = 2x
 - (2) 2x + 3y = 0
 - (3) 5x 6y = 0
- Read Section 4.1, pages 175-178, do problems 9, 11, 13, 14, 15, 16, 57, 59
- Read Section 5.1, do problems 9, 11, 13, 15, 17, 45
 - 1. Part 1 Counts as Quiz 5

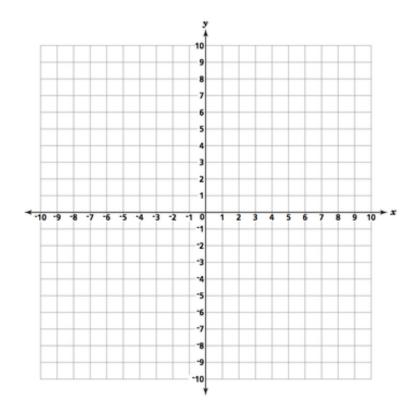
Problem 1. Graph the line 3x + 5y = 15.



Problem 2. Graph the line 4x - y = 0.

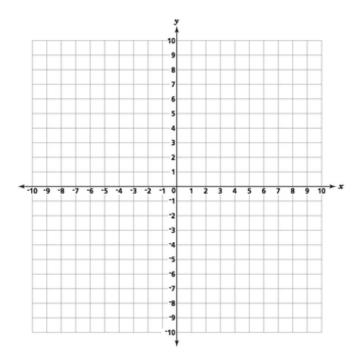


Problem 3. Graph the lines x = 2 and y = -7.



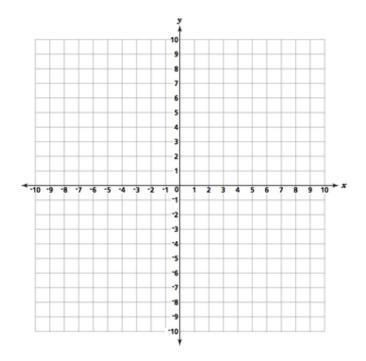
Problem 4. Solve the system of equations by graphing. Be sure to verify your solution!

$$\begin{array}{rcl} x+y & = & 3 \\ x+2y & = & 15 \end{array}$$



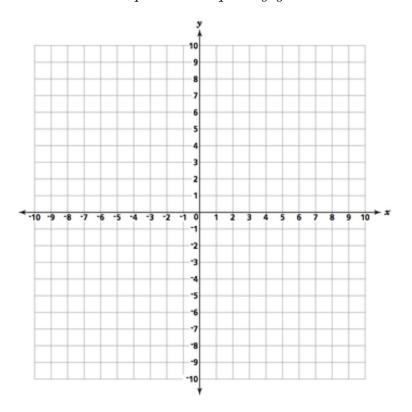
Problem 5. Solve the system of equations by graphing. Be sure to verify your solution!

$$2x + 3y = 18$$
$$4x + 6y = -24$$

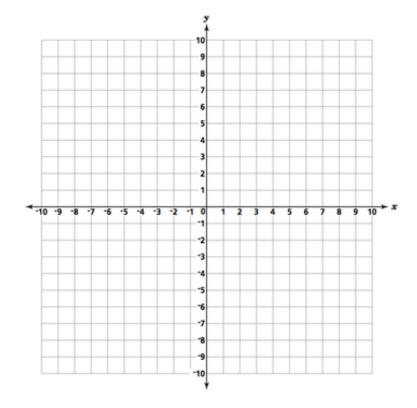


2. Part 2 - Counts as Quiz 6

Problem 6. Graph the inequality y > x + 1.



Problem 7. Graph the inequality $6x - 4y \le 0$.



Problem 8. Graph the inequality $2x + 3y \le 6$ together with the nonnegativity conditions $x, y \ge 0$.

