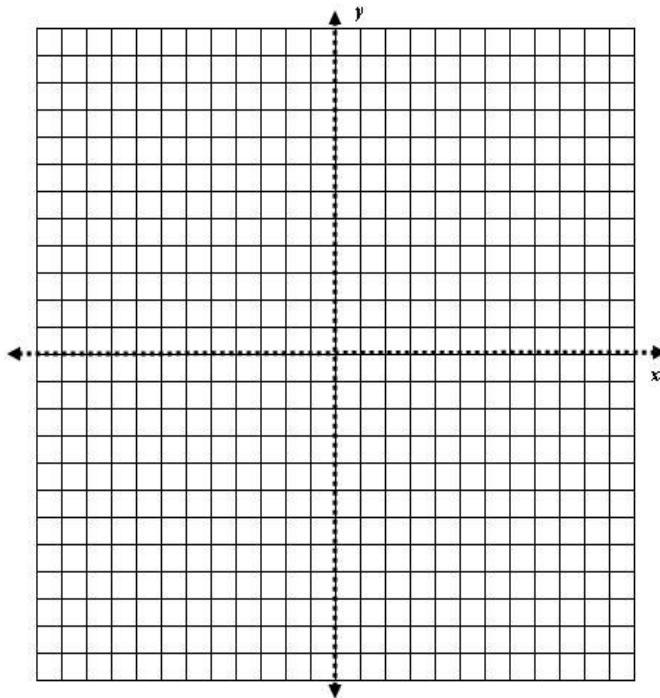


New Topic: Systems of Linear Equations

Consider:

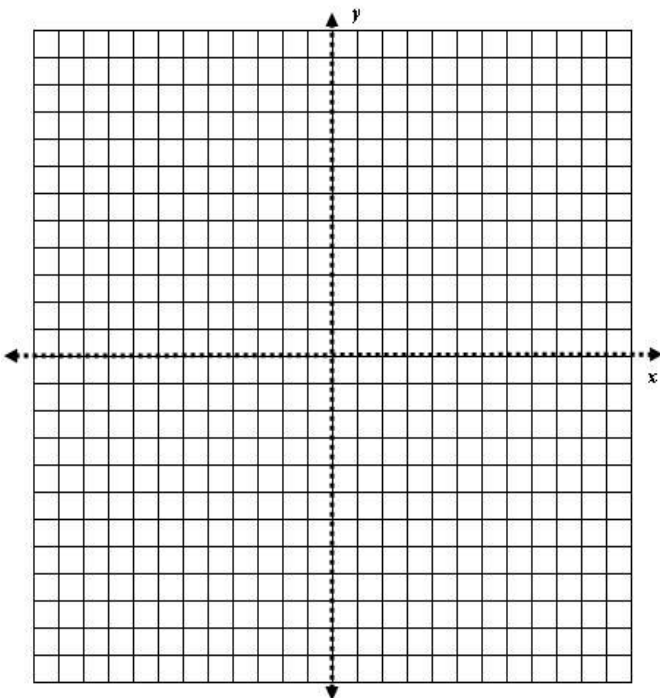
Two linear equations, if graphed on the same set of coordinate axes will have 1 of 3 outcomes:

1. $y = 3x - 6$
 $y = -x + 6$



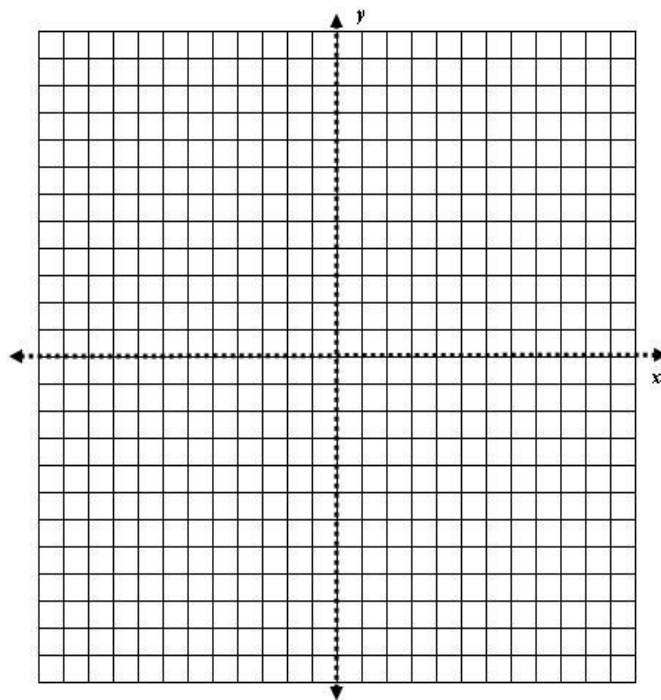
These Two Equations are known as: _____

2. $4x - y = 5$
 $2y = 8x - 10$



These Two Equations are known as: _____

3. $4x = 4y - 12$
 $-8x + 8y = 8$



These Two Equations are known as: _____

Section 2. Some Practice:

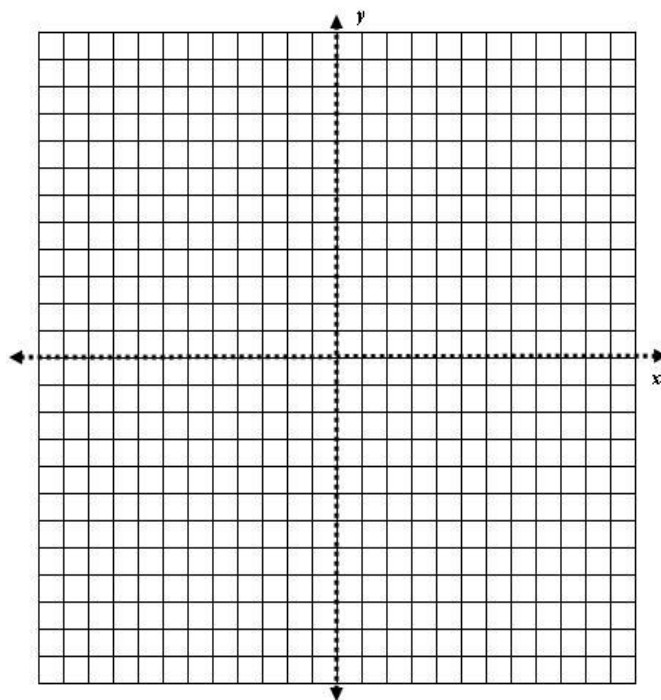
1. Express each equation in slope-intercept form. Without graphing the equations, state whether the system of equations has exactly one solution (consistent), no solution (inconsistent), or an infinite number of solutions (dependent).

a. $2y = 3x + 3$
 $y = \frac{2}{3}x - 2$

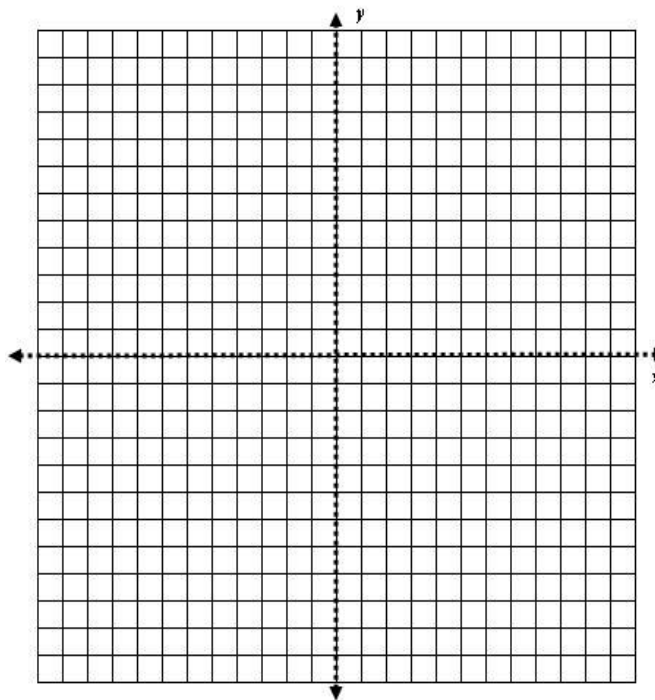
b. $x = 3y + 4$
 $2x - 6y = 8$

Solve the Systems of Linear Equations Graphically. Be sure to check the result. If the equations are inconsistent or dependent, so state.

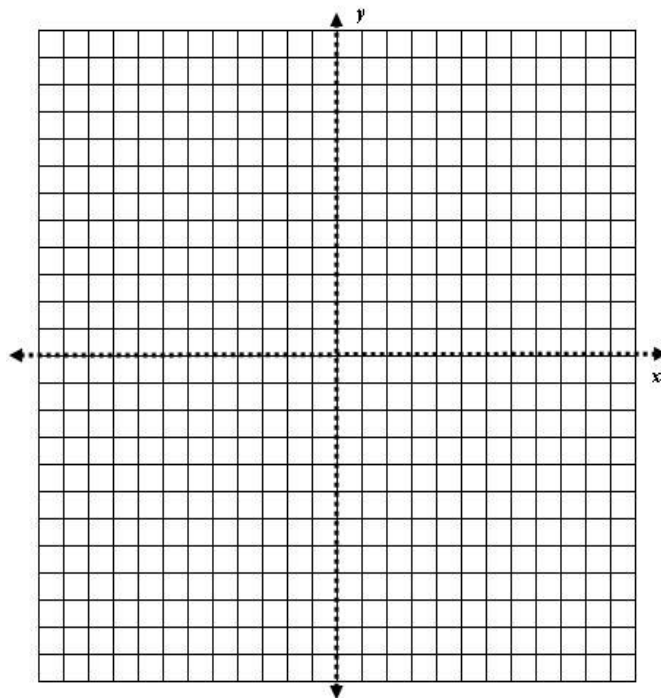
1. $y = 2x + 4$
 $y = -3x - 6$



2. $2x + y = 6$
 $2x - y = -2$



3. $3x + y = -6$
 $2x = 1 + y$



Homework Section

Section(s)	Page(s)	Problem(s)
9.1	560 → 561	25 – 59 Odd