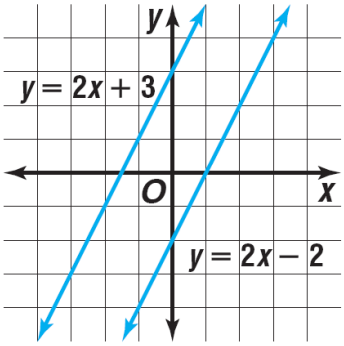
Name: _____

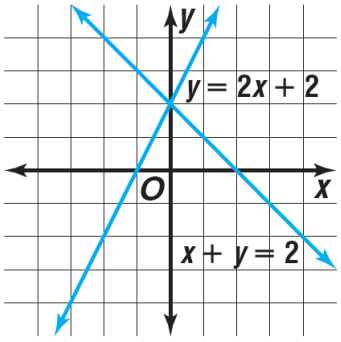
Solutions of Systems of Equations

1) State whether each system is *consistent and independent*, *consistent and dependent*, or *inconsistent*.

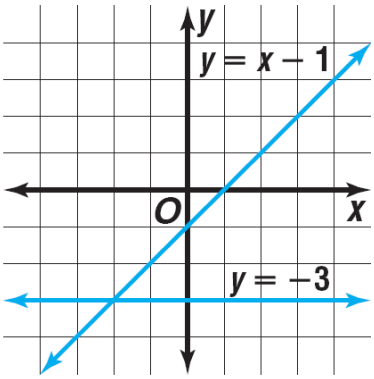
1)



2)



3)



2) Determine whether each system of equations has *one* solution, *no* solution, or *infinitely many* solutions by graphing. If the system has one solution, name it.

1) $\begin{cases} y = 2x + 1 \\ y = -x - 2 \end{cases}$

2) $\begin{cases} y = 2x - 6 \\ y = 2x + 4 \end{cases}$

3) $\begin{cases} x + y = 12 \\ 2x - y = 3 \end{cases}$

4) $\begin{cases} y = 10x - 16 \\ y = 4x - 4 \end{cases}$

5) $\begin{cases} x - 2y = -3 \\ -2x + 4y = 8 \end{cases}$

6) $\begin{cases} x = 5 \\ x - 4y = 1 \end{cases}$

7) $\begin{cases} y = 3 \\ x - y = 2 \end{cases}$

8) $\begin{cases} x + 2y = 5 \\ x + y = 4 \end{cases}$

9) $\begin{cases} 4x + 6y = 12 \\ 2x - 6 = -3y \end{cases}$

10) $\begin{cases} y = x + 7 \\ x = 7 - y \end{cases}$

11) $\begin{cases} x + 4y = 5 \\ 2x + 6y = 6 \end{cases}$

12) $\begin{cases} 3x + 3y = 6 \\ 4x - y = 3 \end{cases}$