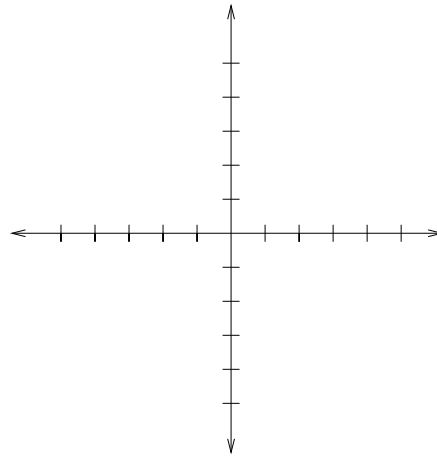


Name: \_\_\_\_\_

**Math 99 Worksheet #1**  
**April 6, 2007**

1. Is  $(-1, -3)$  a solution to the system  $3x + 5y = -18$  ?  
 $4x + 2y = 10$

2. Solve the system  $2x - 4y = 12$  by graphing.  
 $x + 2y = 2$



3. Without graphing, determine whether the following systems have one solution, no solution, or an infinite number of solutions.

(a)  $y = -\frac{1}{2}x + 3$   
 $y = 5x - 4$

(b)  $y = -3x + 4$   
 $6x - 2y = -4$

4. Solve each system below by substitution.

(a)  $x + 3y = -28$   
 $y = 2x$

(b)  $2x = -12 + y$   
 $2y = 4x + 24$

(c)  $\frac{1}{2}x = \frac{1}{2}y + 2$   
 $\frac{1}{2}x + \frac{1}{3}y = \frac{9}{2}$

5. Solve each system below by elimination.

(a)  $x - y = -2$   
 $x + y = 8$

(b)  $6x - y = -1$   
 $5y = 17 + 6x$

(c)  $3x - 5y = 1$   
 $6x - 10y = 4$