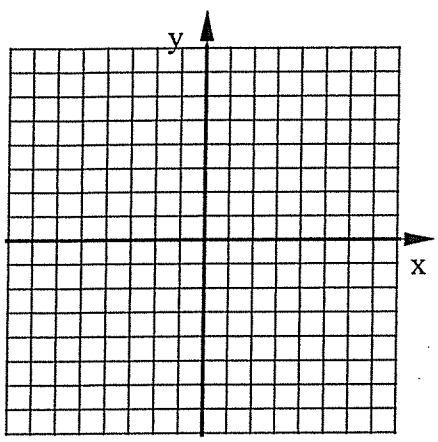
Alg 2A Hwk #15 Sec 3-1 Fall 2016 Name:

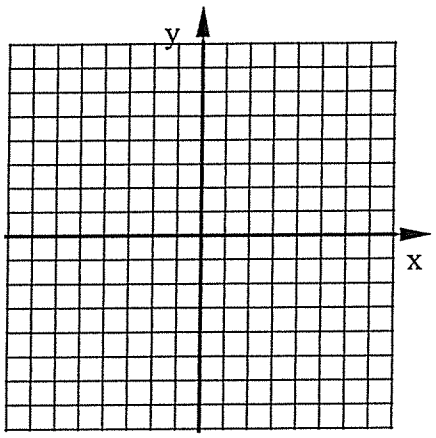
For 1 to 3 solve each system of equations by graphing. State answers as ordered pairs.

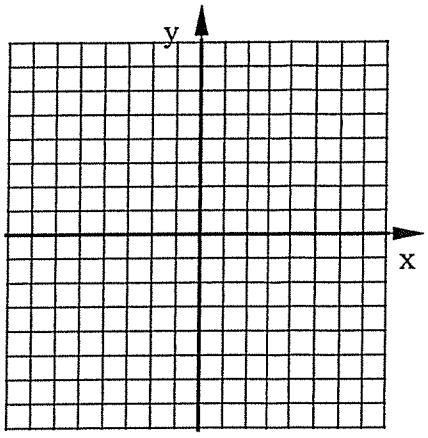
1. $3x+y=5$
   $x-y=7$
   Sol:

2. $y=\frac{1}{3}x+2$
   $2x-y=8$
   Sol:

3. $y=3|x-2|-5$
   $y=x-3$
   Sol:







For 4 to 8, without graphing or solving any other way, state whether each system of equations has One, None, or Many solutions.

4. $y=7x+6$
   $14x-2y=9$

5. $y=-2x+3$
   $4x-8y=40$

6. $y+1=\frac{1}{3}(x-12)$
   $2x-6y=30$

7. $y=6$
   $6x-4y=3$

8. $y=4x$
   $4x-2y=16$

Write a second equation for each system so that the system will have the indicated number of solutions.

9. One Solution
   $y=-3x+2$
   _____

10. No Solution
    $4x-5y=10$
    _____

11. Many Solutions
    $12x+3y=15$
    _____