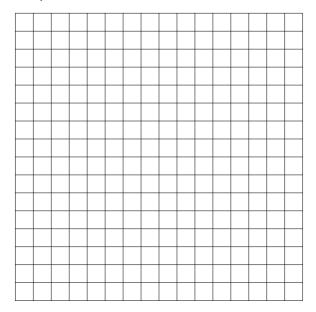
**Instructions**: Show all your work, and check all your solutions. If your final answer is a number or equation, draw a box around it.

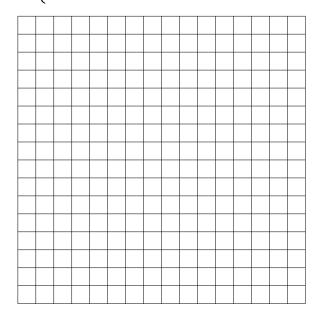
If your solution doesn't check, try to find out why, or write "doesn't check" if you run out of time.

**1.** (60pts) Solve these systems of equations *using graphs*. Make sure to check your answers.

a. 
$$\begin{cases} x + 2y = -5 \\ 3x + y = -5 \end{cases}$$

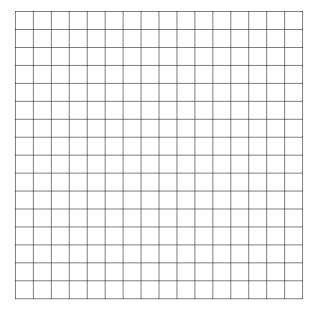


b. 
$$\begin{cases} x - 4y = 1 \\ x = 3 \end{cases}$$

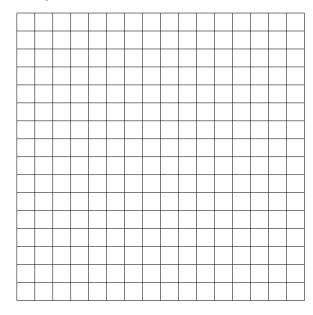


**2.** (30pts) Graph each equation.

a. 
$$x + y = \frac{1}{3}x - 2$$



b. 
$$y = -x + x^2$$



**3.** (10pts) Convert to standard form:  $1 - \frac{x}{3} = y - 2x$ .

Extra credit. (10pts)

Make up a system of linear equations which is true for (x,y) = (2,3). Then solve it. Do you get (2,3) as your solution?