Show your work and box your final answer. If you run out of room, continue on the back. You have 20 minutes. No calculators.

Name and section: ____

1. (5 points) Find all solutions to the linear system

 $\begin{array}{rcl} 3x - 4y & = & 25 \\ x + y & = & -1. \end{array}$

2. (5 points) Consider the linear system

$$cx + 9y = -6$$
$$x + cy = 2.$$

For what values of c does this system have no solutions? A unique solution? Infinitely many solutions?