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: $\qquad$

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

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

2. (5 points) Consider the linear system

$$
\begin{aligned}
c x+9 y & =-6 \\
x+c y & =2
\end{aligned}
$$

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

