You have 20 minutes to complete the quiz. No calculators.

Name:

1. (5 points) Find all solutions of the following linear system:

$$
\begin{aligned}
-2 x_{1}+2 x_{2} & =4 \\
x_{1}-x_{2} & =-2
\end{aligned}
$$

2. (5 points) Consider the following linear system:

$$
\begin{aligned}
c x+y & =5 \\
x+y & =2
\end{aligned}
$$

For what values of $c$ does this system have no solutions? For which values of $c$ does it have a unique solution? For which values of $c$ does it have infinitely many solutions?

