Directions: This assessment has 2 questions, for a total of 20 points. You must show all of your work to receive full credit for an answer. Remember, you may not use a calculator or any other resources during this assessment. Good luck!!

Name:

1. (10 points) Find all solutions of the linear system by eliminating variables.

$$
\left|\begin{array}{r}
2 x_{1}+4 x_{2}+6 x_{3}=4 \\
x_{1}+2 x_{2}+5 x_{3}=4 \\
3 x_{1}+3 x_{2}+6 x_{3}=3
\end{array}\right|
$$

2. (10 points) Find all solutions of the system using Gauss-Jordan elimination.

$$
\left|\begin{array}{rl}
x_{1}+x_{2} & = \\
x_{1}+x_{3} & =1 \\
-x_{2}+x_{3} & =
\end{array}\right|
$$

