Name: _____   Date: _____

MA 162

Week 7 Recitation Worksheet (Tuesday)

You must show all work to receive full credit.

1. Solve the following system of equations using the Gauss-Jordan method.

$$
\begin{cases}
x & - & 2y & + & 3z & = & -1 \\
-2x & + & 5y & - & 10z & = & 4 \\
7x & - & 17y & + & 35z & = & -19
\end{cases}
$$

2. Solve the following system of equations using the Gauss-Jordan method.

$$\begin{cases} -3x & + & 4y & - & 7z & = & -5 \\ x & - & 2y & + & 3z & = & 6 \\ 3x & & & + & z & = & -7 \end{cases}$$

3. Solve the following system of equations using the Gauss-Jordan method.

$$\begin{cases} x & - & 6y & - & 4z & = & 5 \\ 5x & + & 4y & + & z & = & -2 \\ 7x & - & 8y & - & 7z & = & 1 \end{cases}$$