



## Example

Solve the following system of equations using Gauss-Jordan elimination with back substitution:

$$\begin{array}{rcrcrcrcrcl} 2x & + & z & = & 4 \\ 3x & + & 2y & + & z & = & -1 \\ -2x & - & 2y & - & z & = & 2 \end{array}$$









## Example

Solve the following system of equations using Gauss-Jordan elimination with back substitution:

$$\begin{array}{rcl} x + 2y - 2z & = & \frac{5}{2} \\ 2x - 2y + 4z & = & -2 \\ -2x + 4y + 6z & = & 17 \end{array}$$









