Example 1

Write the augmented matrix for the given system of equations.

$$x+2y-z=3$$

$$2x - y + 2z = 6$$

$$x - 3y + 3z = 4$$

Example 2

Solve the given system by Gaussian elimination.

$$2x+3y=6$$

$$x - y = \frac{1}{2}$$

Example 3

Solve the system of equations.

$$5x+3y+9z=-1$$

$$-2x+3y-z=-2$$

$$-x-4y+5z=1$$