

Homework #3 (Due Tuesday, February 5)

1. Use the **Gauss-Jordan Method** to solve the following system.

(Warning: You get **NO CREDIT** if you use any other method!!!!!!)

$$(A) [2.2, \#29] \begin{cases} 4x + 4y - 4z = 24 \\ 2x - y + z = -9 \\ x - 2y + 3z = 1 \end{cases}$$

$$(B) [2.2, \#31] \begin{cases} 3x + 5y - z = 0 \\ 4x - y + 2z = 1 \\ 7x + 4y + z = 1 \end{cases}$$

$$(C) [2.2, \#38] \begin{cases} x + 3y - 2z - w = 9 \\ 2x + 4y + 2w = 10 \\ -3x - 5y + 2z - w = -15 \\ x - y - 3z + 2w = 6 \end{cases}$$

$$(D) [2.2, \#39] \begin{cases} x + y - z + 2w = -20 \\ 2x - y + z + w = 11 \\ 3x - 2y + z - 2w = 27 \end{cases}$$