

In-Class Problems 19 for Monday, April 9

These problems are from [Pre-Class Problems 19](#).

1. Solve the following systems of equations using Gaussian elimination.

a.
$$\begin{aligned} 3x - 3y - 6z &= 13 \\ -5x + 15y + 25z &= -35 \\ 6x - 12y - 21z &= 34 \end{aligned}$$

b.
$$\begin{aligned} 2x + 5y + 3z &= -8 \\ 4x + 11y + 2z &= -14 \\ -6x - 14y - 13z &= 22 \end{aligned}$$

c.
$$\begin{aligned} x - 2y + 5z &= 9 \\ -4x + 7y - 23z &= -43 \\ 3x - 5y + 18z &= 34 \end{aligned}$$

d.
$$\begin{aligned} 4x - 2y + z &= 12 \\ -3x + 4y - 5z &= -13 \\ 9x - 2y - 2z &= 23 \end{aligned}$$