Assignment/Homework A6

Question 01:

Evaluate the determinants

$$\det(A) = \begin{vmatrix} 4 & 6 \\ 3 & 1 \end{vmatrix} \qquad \det(B) = \begin{vmatrix} 4 & 8 \\ 1 & 2 \end{vmatrix} \qquad \det(C) = \begin{vmatrix} 6 & 5 & 4 \\ 2 & -1 & 7 \\ -3 & 2 & 0 \end{vmatrix}$$

Question 02:

Solve each system:

$$\text{(a)} \quad \begin{aligned} x + 2y - 4z &= -3 \\ 2x + 6y - 5z &= 2 \\ 3x + 11y - 4z &= 12 \end{aligned}$$