

Mathematics – Linear Algebra - Exercises

01 Given the simultaneous equations, set up the determinant solution for z (no need to solve):

$$6x - 2y - 3z = 2$$

$$2z + 7y = 0$$

$$-x + 2y - 4 = 3$$

02 Evaluate the determinants:

$$\text{a) } \begin{vmatrix} 3 & 1 \\ -3 & 1 \end{vmatrix}$$

$$\text{b) } \begin{vmatrix} -1 & 3 & -2 \\ 2 & 1 & 2 \\ 0 & 3 & -2 \end{vmatrix}$$