DETERMINANT
AND INVERSE OF 3x3 MATRICES

EXERCISE 1: Find the determinant of the following 3x3 matrices

a)
$$\begin{bmatrix} 6 & 2 & 3 \\ 4 & 1 & 7 \\ 0 & 8 & 4 \end{bmatrix}$$

b)
$$\begin{bmatrix} 1 & -5 & 3 \\ 7 & 4 & -9 \\ 4 & 8 & 2 \end{bmatrix}$$

EXERCISE 2: Find the inverse of the following 3x3 matrices

a)
$$\begin{bmatrix} 6 & 2 & 3 \\ 4 & 1 & 7 \\ 0 & 8 & 4 \end{bmatrix}$$

b)
$$\begin{bmatrix} 1 & -5 & 3 \\ 7 & 4 & -9 \\ 4 & 8 & 2 \end{bmatrix}$$

EXERCISE 3: Find the inverse of the following 3×3 matrices

a) $\begin{bmatrix} 1 & 0 & 2 \\ -3 & 4 & 7 \\ 2 & -1 & 6 \end{bmatrix}$

b) $\begin{bmatrix} 0 & 0 & 3 \\ 4 & 5 & 3 \\ 2 & 7 & 1 \end{bmatrix}$