

# COMPETENCIA: MATRICES

## Determinante de la matriz

RESOLVER ESTE DETERMINANTE POR DOS MÉTODOS CONOCIDOS

(Agregando las dos primeras columnas)

$$\det(I) \text{ o } |I| \quad I = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix} \quad I = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix} \begin{pmatrix} -3 & 5 \\ 5 & -3 \\ -1 & -2 \end{pmatrix}$$

$$\det I = [( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )] -$$

$$[( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )]$$

$$\det I = [( ) + ( ) + ( )] - [( ) + ( ) + ( )]$$

$$\det I = [( )] - [( )] \quad \det = \underline{\hspace{2cm}}$$

$$\det(I) \text{ o } |I| \quad I = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix} \quad I = \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \\ -1 & -2 & -2 \end{pmatrix} \begin{pmatrix} -3 & 5 & 0 \\ 5 & -3 & 4 \end{pmatrix}$$

$$I = [( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )] -$$

$$[( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )]$$

$$I = [( ) + ( ) + ( )] - [( ) + ( ) + ( )]$$

$$I = [( )] - [( )]$$

$$I = \underline{\hspace{2cm}}$$

(Agregando las dos primeras columnas)

$$\det(M) \text{ o } |M| \quad M = \begin{pmatrix} 4 & 5 & 1 \\ 5 & -7 & 4 \\ -6 & 3 & -2 \end{pmatrix}$$

$$\det M = [( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )] -$$

$$[( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )]$$

$$\det M = [( ) + ( ) + ( )] - [( ) + ( ) + ( )]$$

$$\det M = [( )] - [( )] \quad \det M =$$

Agregando las dos primeras filas

$$\det(M) \text{ o } |M| \quad M = \begin{pmatrix} 4 & 5 & 1 \\ 5 & -7 & 4 \\ -6 & 3 & -2 \end{pmatrix}$$

$$M = [( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )] -$$

$$[( ) ( ) ( ) + ( ) ( ) ( ) + ( ) ( ) ( )]$$

$$M = [( ) + ( ) + ( )] - [( ) + ( ) + ( )]$$

$$M = [( )] - [( )]$$

$$M = \underline{\hspace{2cm}}$$