Matrices - Find Minor Matrix from Number (3x3)

Name

1 Find the resulting 2x2 'minor' matrix for the '4' at row 1 and column 3

M_{13} of $\begin{bmatrix} 3 & 8 & 4 \\ 1 & 9 & 5 \\ 3 & 6 & 9 \end{bmatrix}$

A $\begin{bmatrix} 3 & 8 \\ 1 & 9 \end{bmatrix}$ B $\begin{bmatrix} 8 & 4 \\ 6 & 9 \end{bmatrix}$ C $\begin{bmatrix} 9 & 5 \\ 6 & 9 \end{bmatrix}$ D $\begin{bmatrix} 1 & 9 \\ 3 & 6 \end{bmatrix}$ E $\begin{bmatrix} 3 & 4 \\ 3 & 9 \end{bmatrix}$ F $\begin{bmatrix} 3 & 8 \\ 3 & 6 \end{bmatrix}$

2 Find the resulting 2x2 'minor' matrix for the '7' at row 3 and column 3

M_{33} of $\begin{bmatrix} 3 & 6 & 5 \\ 0 & 5 & 1 \\ 8 & 0 & 7 \end{bmatrix}$

A $\begin{bmatrix} 0 & 5 \\ 8 & 0 \end{bmatrix}$ B $\begin{bmatrix} 0 & 1 \\ 8 & 7 \end{bmatrix}$ C $\begin{bmatrix} 6 & 5 \\ 5 & 1 \end{bmatrix}$ D $\begin{bmatrix} 5 & 1 \\ 0 & 7 \end{bmatrix}$ E $\begin{bmatrix} 3 & 6 \\ 0 & 5 \end{bmatrix}$ F $\begin{bmatrix} 6 & 5 \\ 0 & 7 \end{bmatrix}$

3 Find the resulting 2x2 'minor' matrix for the '3' at row 1 and column 1

M_{11} of $\begin{bmatrix} 3 & 0 & 0 \\ 4 & 9 & 9 \\ 1 & 6 & 5 \end{bmatrix}$

A $\begin{bmatrix} 3 & 0 \\ 4 & 9 \end{bmatrix}$ B $\begin{bmatrix} 9 & 9 \\ 6 & 5 \end{bmatrix}$ C $\begin{bmatrix} 3 & 0 \\ 1 & 6 \end{bmatrix}$ D $\begin{bmatrix} 3 & 0 \\ 1 & 5 \end{bmatrix}$ E $\begin{bmatrix} 0 & 0 \\ 6 & 5 \end{bmatrix}$ F $\begin{bmatrix} 0 & 0 \\ 9 & 9 \end{bmatrix}$

4 Find the resulting 2x2 'minor' matrix for the '7' at row 3 and column 2

M_{32} of $\begin{bmatrix} 6 & 8 & 5 \\ 5 & 5 & 9 \\ 0 & 7 & 4 \end{bmatrix}$

A $\begin{bmatrix} 5 & 5 \\ 0 & 7 \end{bmatrix}$ B $\begin{bmatrix} 8 & 5 \\ 5 & 9 \end{bmatrix}$ C $\begin{bmatrix} 6 & 8 \\ 5 & 5 \end{bmatrix}$ D $\begin{bmatrix} 6 & 5 \\ 0 & 4 \end{bmatrix}$ E $\begin{bmatrix} 6 & 5 \\ 5 & 9 \end{bmatrix}$ F $\begin{bmatrix} 6 & 8 \\ 0 & 7 \end{bmatrix}$

5 Find the resulting 2x2 'minor' matrix for the '0' at row 1 and column 3

M_{13} of $\begin{bmatrix} 1 & 9 & 0 \\ 1 & 6 & 2 \\ 4 & 9 & 3 \end{bmatrix}$

A $\begin{bmatrix} 1 & 6 \\ 4 & 9 \end{bmatrix}$ B $\begin{bmatrix} 1 & 0 \\ 4 & 3 \end{bmatrix}$ C $\begin{bmatrix} 9 & 0 \\ 6 & 2 \end{bmatrix}$ D $\begin{bmatrix} 1 & 9 \\ 1 & 6 \end{bmatrix}$ E $\begin{bmatrix} 6 & 2 \\ 9 & 3 \end{bmatrix}$ F $\begin{bmatrix} 1 & 9 \\ 4 & 9 \end{bmatrix}$

6 Find the resulting 2x2 'minor' matrix for the '9' at row 2 and column 3

M_{23} of $\begin{bmatrix} 7 & 7 & 8 \\ 3 & 7 & 9 \\ 0 & 7 & 6 \end{bmatrix}$

A $\begin{bmatrix} 3 & 7 \\ 0 & 7 \end{bmatrix}$ B $\begin{bmatrix} 7 & 8 \\ 3 & 9 \end{bmatrix}$ C $\begin{bmatrix} 7 & 7 \\ 0 & 7 \end{bmatrix}$ D $\begin{bmatrix} 7 & 7 \\ 3 & 7 \end{bmatrix}$ E $\begin{bmatrix} 7 & 8 \\ 7 & 9 \end{bmatrix}$ F $\begin{bmatrix} 3 & 9 \\ 0 & 6 \end{bmatrix}$

7 Find the resulting 2x2 'minor' matrix for the '9' at row 3 and column 3

M_{33} of $\begin{bmatrix} 4 & 7 & 1 \\ 5 & 7 & 6 \\ 5 & 2 & 9 \end{bmatrix}$

A $\begin{bmatrix} 7 & 6 \\ 2 & 9 \end{bmatrix}$ B $\begin{bmatrix} 4 & 1 \\ 5 & 9 \end{bmatrix}$ C $\begin{bmatrix} 4 & 1 \\ 5 & 6 \end{bmatrix}$ D $\begin{bmatrix} 5 & 7 \\ 5 & 2 \end{bmatrix}$ E $\begin{bmatrix} 4 & 7 \\ 5 & 7 \end{bmatrix}$ F $\begin{bmatrix} 5 & 6 \\ 5 & 9 \end{bmatrix}$

8 Find the resulting 2x2 'minor' matrix for the '4' at row 2 and column 3

M_{23} of $\begin{bmatrix} 3 & 5 & 5 \\ 2 & 0 & 4 \\ 0 & 3 & 5 \end{bmatrix}$

A $\begin{bmatrix} 3 & 5 \\ 2 & 0 \end{bmatrix}$ B $\begin{bmatrix} 3 & 5 \\ 2 & 4 \end{bmatrix}$ C $\begin{bmatrix} 3 & 5 \\ 0 & 5 \end{bmatrix}$ D $\begin{bmatrix} 2 & 4 \\ 0 & 5 \end{bmatrix}$ E $\begin{bmatrix} 3 & 5 \\ 0 & 3 \end{bmatrix}$ F $\begin{bmatrix} 0 & 4 \\ 3 & 5 \end{bmatrix}$

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