



Matrices - Find Determinant of Minor Matrix from Terminology (3x3)

1 Find the determinant of the 'minor' matrix indicated

$$\det(M_{21}) \text{ for } \begin{bmatrix} 7 & 2 & 9 \\ 8 & 0 & 0 \\ 6 & 2 & 6 \end{bmatrix}$$

A	B	C	D	E	F
0	-25	-8	-4	-5	-6

2 Find the determinant of the 'minor' matrix indicated

$$\det(M_{32}) \text{ for } \begin{bmatrix} 4 & 5 & 5 \\ 4 & 6 & 7 \\ 8 & 3 & 9 \end{bmatrix}$$

A	B	C	D	E	F
12	8	-9	9	-5	4

3 Find the determinant of the 'minor' matrix indicated

$$\det(M_{12}) \text{ for } \begin{bmatrix} 1 & 7 & 5 \\ 4 & 0 & 1 \\ 9 & 8 & 5 \end{bmatrix}$$

A	B	C	D	E	F
17	0	-10	6	15	11

4 Find the determinant of the 'minor' matrix indicated

$$\det(M_{11}) \text{ for } \begin{bmatrix} 3 & 1 & 7 \\ 6 & 0 & 1 \\ 7 & 7 & 1 \end{bmatrix}$$

A	B	C	D	E	F
-11	-14	-4	-7	0	-6

5 Find the determinant of the 'minor' matrix indicated

$$\det(M_{22}) \text{ for } \begin{bmatrix} 5 & 8 & 6 \\ 8 & 3 & 7 \\ 6 & 7 & 4 \end{bmatrix}$$

A	B	C	D	E	F
8	-16	15	-18	-24	18

6 Find the determinant of the 'minor' matrix indicated

$$\det(M_{13}) \text{ for } \begin{bmatrix} 10 & 3 & 9 \\ 1 & 10 & 6 \\ 0 & 8 & 6 \end{bmatrix}$$

A	B	C	D	E	F
15	-10	8	-19	-1	0

7 Find the determinant of the 'minor' matrix indicated

$$\det(M_{11}) \text{ for } \begin{bmatrix} 1 & 8 & 5 \\ 2 & 2 & 4 \\ 8 & 9 & 8 \end{bmatrix}$$

A	B	C	D	E	F
-6	-26	-22	1	-20	-24

8 Find the determinant of the 'minor' matrix indicated

$$\det(M_{22}) \text{ for } \begin{bmatrix} 9 & 8 & 2 \\ 7 & 1 & 8 \\ 5 & 2 & 9 \end{bmatrix}$$

A	B	C	D	E	F
36	17	71	0	107	64