



Math worksheet on 'Matrices - Find Determinant of Minor Matrix from Terminology (3x3) (Level 1)'. Part of a broader unit on 'Matrices'

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1 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
0	-10	-1	15	8	-19

2 Find the determinant of the 'minor' matrix indicated

$$\det(M_{23}) \text{ for } \begin{bmatrix} 4 & 4 & 1 \\ 1 & 4 & 3 \\ 5 & 4 & 2 \end{bmatrix}$$

a	b	c	d	e	f
2	-5	24	-4	-2	-9

3 Find the determinant of the 'minor' matrix indicated

$$\det(M_{22}) \text{ for } \begin{bmatrix} 5 & 3 & 4 \\ 3 & 7 & 2 \\ 6 & 8 & 3 \end{bmatrix}$$

a	b	c	d	e	f
13	-9	-11	-14	-1	7

4 Find the determinant of the 'minor' matrix indicated

$$\det(M_{32}) \text{ for } \begin{bmatrix} 9 & 6 & 7 \\ 6 & 8 & 5 \\ 6 & 2 & 8 \end{bmatrix}$$

a	b	c	d	e	f
2	15	3	0	5	11

5 Find the determinant of the 'minor' matrix indicated

$$\det(M_{33}) \text{ for } \begin{bmatrix} 2 & 2 & 6 \\ 3 & 4 & 4 \\ 5 & 5 & 9 \end{bmatrix}$$

a	b	c	d	e	f
3	1	14	0	-21	2

6 Find the determinant of the 'minor' matrix indicated

$$\det(M_{22}) \text{ for } \begin{bmatrix} 2 & 6 & 1 \\ 8 & 7 & 3 \\ 6 & 6 & 6 \end{bmatrix}$$

a	b	c	d	e	f
-12	4	6	3	-1	9

7 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
-7	-14	-4	0	-6	-11