

Math Sheet

Name _____ Score _____ / 12 Teacher _____ Date _____

Matrix Determinants 2×2

Find each determinant. Use the given variable value when provided. Show your work.

1. $\det(A)$

$$A = \begin{bmatrix} -2 & 5 \\ -4 & 6 \end{bmatrix}$$

2. $\det(A)$

$$A = \begin{bmatrix} -1 & -3 \\ 5 & 1 \end{bmatrix}$$

3. $\det(A)$

$$A = \begin{bmatrix} 0 & 5 \\ 1 & 4 \end{bmatrix}$$

4. $\det(A)$

$$A = \begin{bmatrix} -3 & 0 \\ 1 & 3 \end{bmatrix}$$

5. $\det(A)$

$$A = \begin{bmatrix} 2 & 1 \\ 5 & 1 \end{bmatrix}$$

6. $\det(A)$

$$A = \begin{bmatrix} 4 & -2 \\ -1 & 3 \end{bmatrix}$$

7. D

$$D = \begin{vmatrix} 2 & -4 \\ -1 & 5 \end{vmatrix}$$

8. D

$$D = \begin{vmatrix} 1 & 5 \\ 3 & -1 \end{vmatrix}$$

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Find each determinant. Use the given variable value when provided. Show your work.

9. D

$$D = \begin{vmatrix} 0 & -3 \\ -4 & 1 \end{vmatrix}$$

10. D

$$D = \begin{vmatrix} 6 & -6 \\ -6 & 4 \end{vmatrix}$$

11. D

$$D = \begin{vmatrix} -4 & 0 \\ 6 & -6 \end{vmatrix}$$

12. D

$$D = \begin{vmatrix} 5 & -4 \\ 3 & 1 \end{vmatrix}$$
