Name:

Date:

Finding Determinants of a Matrix

Evaluate the determinant of each matrix.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} =$

2) $\begin{bmatrix} 5 & 3 & 3 \\ -4 & -5 & 1 \\ 5 & 3 & 0 \end{bmatrix} =$

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

4) $\begin{bmatrix} 8 & -6 \\ -10 & 9 \end{bmatrix} =$

5) $\begin{bmatrix} 5 & 2 & 1 \\ 6 & 2 & 1 \\ 0 & -1 & 0 \end{bmatrix} =$

6) $\begin{bmatrix} -9 & 6 \\ -3 & 0 \end{bmatrix} =$

7) $\begin{bmatrix} 1 & 7 \\ 6 & -2 \end{bmatrix} =$

8) $\begin{bmatrix} 2 & 2 & 5 \\ 10 & -2 & 0 \\ 0 & 4 & 3 \end{bmatrix} =$

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Finding Determinants of a Matrix

Answers

Evaluate the determinant of each matrix.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} = 4$

2) $\begin{bmatrix} 5 & 3 & 3 \\ -4 & -5 & 1 \\ 5 & 3 & 0 \end{bmatrix} = 39$

3) $\begin{bmatrix} -1 & 2 \\ 1 & 4 \end{bmatrix} = -6$

4) $\begin{bmatrix} 8 & -6 \\ -10 & 9 \end{bmatrix} = 12$

5) $\begin{bmatrix} 5 & 2 & 1 \\ 6 & 2 & 1 \\ 0 & -1 & 0 \end{bmatrix} = -1$

6) $\begin{bmatrix} -9 & 6 \\ -3 & 0 \end{bmatrix} = 18$

7) $\begin{bmatrix} 1 & 7 \\ 6 & -2 \end{bmatrix} = -44$

8) $\begin{bmatrix} 2 & 2 & 5 \\ 10 & -2 & 0 \\ 0 & 4 & 3 \end{bmatrix} = 128$

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