Name:

Date:

Finding Determinants of a Matrix

Evaluate the determinant of each matrix.

1) $\begin{vmatrix} 0 & 4 \\ 6 & 5 \end{vmatrix}$

2) $\begin{vmatrix} 0 & -4 \\ -6 & -2 \end{vmatrix}$

3) $\begin{vmatrix} -5 & 0 \\ 3 & 10 \end{vmatrix}$

4) $\begin{vmatrix} 6 & 5 & -3 \\ -5 & 4 & -2 \\ 1 & -4 & 5 \end{vmatrix}$

5) $\begin{vmatrix} 5 & 3 & 3 \\ -4 & -5 & 1 \\ 5 & 3 & 0 \end{vmatrix}$

6) $\begin{vmatrix} 0 & 6 \\ -6 & 0 \end{vmatrix}$

7) $\begin{vmatrix} -9 & -9 \\ -7 & -10 \end{vmatrix}$

8) $\begin{vmatrix} -2 & 5 & -4 \\ 0 & -3 & 5 \\ -5 & 5 & -6 \end{vmatrix}$

9) $\begin{vmatrix} 6 & 2 & -1 \\ -5 & -4 & -5 \\ 3 & -3 & 1 \end{vmatrix}$

10) $\begin{vmatrix} -1 & 8 \\ 5 & 0 \end{vmatrix}$

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1) $\begin{vmatrix} 0 & 4 \\ 6 & 5 \end{vmatrix}$

-24

2) $\begin{vmatrix} 0 & -4 \\ -6 & -2 \end{vmatrix}$

-24

3) $\begin{vmatrix} -5 & 0 \\ 3 & 10 \end{vmatrix}$

-50

4) $\begin{vmatrix} 6 & 5 & -3 \\ -5 & 4 & -2 \\ 1 & -4 & 5 \end{vmatrix}$

139

5) $\begin{vmatrix} 5 & 3 & 3 \\ -4 & -5 & 1 \\ 5 & 3 & 0 \end{vmatrix}$

39

6) $\begin{vmatrix} 0 & 6 \\ -6 & 0 \end{vmatrix}$

-36

7) $\begin{vmatrix} -9 & -9 \\ -7 & -10 \end{vmatrix}$

27

8) $\begin{vmatrix} -2 & 5 & -4 \\ 0 & -3 & 5 \\ -5 & 5 & -6 \end{vmatrix}$

-51

9) $\begin{vmatrix} 6 & 2 & -1 \\ -5 & -4 & -5 \\ 3 & -3 & 1 \end{vmatrix}$

-161

10) $\begin{vmatrix} -1 & 8 \\ 5 & 0 \end{vmatrix}$

-40