

Student Name: _____

Score: _____

Evaluate the Determinants

ES2

$$\begin{vmatrix} 3 & 21 & -7 \\ 17 & 5 & 4 \\ 6 & 2 & 2 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} -1 & -4 & -5 \\ 6 & -10 & 9 \\ 13 & 8 & 33 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 12 & 5 & -8 \\ 6 & -4 & 31 \\ 3 & 1 & -2 \end{vmatrix} = \boxed{}$$

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

$$\begin{vmatrix} -49 & 4 & -17 \\ 12 & 1 & 3 \\ 21 & 4 & 5 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 8 & -19 & 12 \\ -16 & 4 & 2 \\ 1 & -4 & 3 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 7 & 2 & 2 \\ 30 & 4 & 5 \\ -3 & 22 & 14 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 3 & -19 & -15 \\ 21 & 8 & 9 \\ -2 & 1 & 1 \end{vmatrix} = \boxed{}$$

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Student Name: _____

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Answer key

Evaluate the Determinants

ES2

$$\begin{vmatrix} 3 & 21 & -7 \\ 17 & 5 & 4 \\ 6 & 2 & 2 \end{vmatrix} = -232$$

$$\begin{vmatrix} -1 & -4 & -5 \\ 6 & -10 & 9 \\ 13 & 8 & 33 \end{vmatrix} = -164$$

$$\begin{vmatrix} 12 & 5 & -8 \\ 6 & -4 & 31 \\ 3 & 1 & -2 \end{vmatrix} =$$

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

PREVIEW

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$$\begin{vmatrix} -49 & 4 & -17 \\ 12 & 1 & 3 \\ 21 & 4 & 5 \end{vmatrix} =$$

$$\begin{vmatrix} 8 & -19 & 12 \\ -16 & 4 & 2 \\ 1 & -4 & 3 \end{vmatrix}$$

$$\begin{vmatrix} 7 & 2 & 2 \\ 30 & 4 & 5 \\ -3 & 22 & 14 \end{vmatrix} = 96$$

$$\begin{vmatrix} 3 & -19 & -15 \\ 21 & 8 & 9 \\ -2 & 1 & 1 \end{vmatrix} = 183$$