

Student Name: _____

Score: _____

Evaluate the Determinants

D

$$\begin{vmatrix} \frac{5}{4} & \frac{-6}{7} & 12 \\ 10 & -2 & 4 \\ \frac{-1}{2} & \frac{-2}{5} & 7 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 8 & 40 & 24 \\ \frac{3}{4} & \frac{5}{6} & \frac{7}{8} \\ \frac{2}{5} & -1 & 3 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} -6 & -3 & 3 \\ \frac{2}{3} & \frac{4}{7} & 12 \\ -7 & \frac{-5}{2} & 35 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 30 & 5 & 25 \\ 6 & 1 & -3 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} -5 & -7 & 35 \\ \frac{1}{7} & -4 & 15 \\ -8 & \frac{2}{5} & 12 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} \frac{-5}{3} & \frac{5}{2} & \frac{7}{6} \\ -4 & 12 & \frac{4}{5} \\ \frac{1}{2} & 3 & -3 \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 1 & 5 & 4 \\ \frac{3}{5} & 21 & 12 \\ -2 & \frac{15}{4} & \frac{-4}{7} \end{vmatrix} = \boxed{}$$

$$\begin{vmatrix} 3 & 12 & 45 \\ \frac{5}{2} & -6 & \frac{-5}{2} \\ \frac{-1}{3} & \frac{2}{3} & \frac{4}{3} \end{vmatrix} = \boxed{}$$

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Answer key

Evaluate the Determinants

D

$$\begin{vmatrix} \frac{5}{4} & \frac{-6}{7} & 12 \\ 10 & -2 & 4 \\ \frac{-1}{2} & \frac{-2}{5} & 7 \end{vmatrix} = \frac{-193}{14}$$

$$\begin{vmatrix} 8 & 40 & 24 \\ \frac{3}{4} & \frac{5}{6} & \frac{7}{8} \\ \frac{2}{5} & -1 & 3 \end{vmatrix} = -75$$

$$\begin{vmatrix} -6 & -3 & 3 \\ \frac{2}{3} & \frac{4}{7} & 12 \\ -7 & \frac{-5}{2} & 35 \end{vmatrix} = 29$$

$$\begin{vmatrix} 30 & 5 & 25 \end{vmatrix} = 271$$

$$\begin{vmatrix} -5 & -7 & 35 \\ \frac{1}{7} & -4 & 15 \\ -8 & \frac{2}{5} & 12 \end{vmatrix} = 4$$

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$$\begin{vmatrix} \frac{-5}{3} & \frac{5}{2} & \frac{7}{6} \\ -4 & 12 & \frac{4}{5} \\ \frac{1}{2} & 3 & -3 \end{vmatrix} = 14$$

$$\begin{vmatrix} 1 & 5 & 4 \\ \frac{3}{5} & 21 & 12 \\ -2 & \frac{15}{4} & \frac{-4}{7} \end{vmatrix} = \frac{12}{7}$$

$$\begin{vmatrix} 3 & 12 & 45 \\ \frac{5}{2} & -6 & \frac{-5}{2} \\ \frac{-1}{3} & \frac{2}{3} & \frac{4}{3} \end{vmatrix} = -64$$