

CONFIDENT EDITION
(SAMPLE EBOOK)

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Determinants

(10 problems with solutions)

$$\begin{vmatrix} 7 & 0 \\ 1 & 5 \end{vmatrix} = ?$$

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$$\textcircled{1} \quad \begin{vmatrix} 7 & 0 \\ 1 & 5 \end{vmatrix} =$$

$$\textcircled{2} \quad \begin{vmatrix} 3 & 1 \\ 3 & 1 \end{vmatrix} =$$

$$\textcircled{3} \quad \begin{vmatrix} 2 & 1 \\ -1 & 3 \end{vmatrix} =$$

$$\textcircled{4} \quad \begin{vmatrix} 3 & 1 \\ 1 & 1 \end{vmatrix} =$$

$$\textcircled{5} \quad \begin{vmatrix} 0 & 1 \\ 0 & 3 \end{vmatrix} =$$

$$\textcircled{6} \quad \begin{vmatrix} 0 & 0 \\ 0 & 0 \end{vmatrix} =$$

$$\textcircled{7} \quad \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} =$$

$$\textcircled{8} \quad \begin{vmatrix} 1 & 1 \\ 1 & -1 \end{vmatrix} =$$

$$\textcircled{9} \quad \begin{vmatrix} 4 & -2 \\ -1 & 3 \end{vmatrix} =$$

$$\textcircled{10} \quad \begin{vmatrix} -1 & -2 \\ -4 & 3 \end{vmatrix} =$$

Problems with solutions

Problem 1:

Calculate: $\begin{vmatrix} 7 & 0 \\ 1 & 5 \end{vmatrix}$

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Calculate: $\begin{vmatrix} 7 & 0 \\ 1 & 5 \end{vmatrix}$

Formula:

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} = a \cdot d - b \cdot c$$

Solution:

$$\begin{vmatrix} 7 & 0 \\ 1 & 5 \end{vmatrix} = 7 \cdot 5 - 0 \cdot 1 = 35 - 0 = 35$$

Answer:

35

Problem 2:

Calculate : $\begin{vmatrix} 3 & 1 \\ 3 & 1 \end{vmatrix}$

Problem 2:

Calculate: $\begin{vmatrix} 3 & 1 \\ 3 & 1 \end{vmatrix}$

Formula:

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} = a \cdot d - b \cdot c$$

Solution:

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

Answer:

0



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