



ম্যাট্রিক্স ও নির্ণায়ক

Matrices and Determinants



Board Questions Analysis

সূজনমূলক প্রশ্ন

বোর্ড সাল	চারা	অনুমানসিদ্ধ	সামান্যসহী	সুখিল্লা	অশোর	চট্টোম	বকিশাল	সিটে	সিন্দোমপুর
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কমননিউমি প্রশ্ন

বোর্ড সাল	চারা	অনুমানসিদ্ধ	সামান্যসহী	সুখিল্লা	অশোর	চট্টোম	বকিশাল	সিটে	সিন্দোমপুর
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বিভিন্ন সালে বোর্ডে আসা সূজনমূলক প্রশ্ন

১। সূত্রসমূহ-১: $x + y + z = 1$ (সেই বোর্ড 'x+z')
 $x + 2y + z = 2$
 $x + y + 2z = 0$

সূত্রসমূহ-২: $D = 8 \begin{vmatrix} \frac{p-q-r}{2} & p & p \\ q & \frac{q-r-p}{2} & q \\ r & r & \frac{r-p-q}{2} \end{vmatrix}$

(ক) $A = [1 \ 2 \ 3]$ এবং $B = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$ হলে, $(AB)^T$ নির্ণয় কর।

(খ) সূত্রসমূহ-১: এ উদ্ভূক্ত সমীকরণ সিস্টেমের সর্বত্রিক সমাধান কর।

(গ) সূত্রসমূহ-২: থেকে প্রমাণ কর যে, $D = S^2$, যেখানে $S = p + q + r$ সমাধান।

(ক) সেওয়া আছে, $A = [1 \ 2 \ 3]$ এবং $B = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix}$

$$\therefore AB = [1 \ 2 \ 3] \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} = [3 + 4 + 3] = [10]$$

$$\therefore (AB)^T = [10]^T = [10] \text{ (Ans.)}$$

(খ) সেওয়া আছে, $x + y + z = 1$
 $x + 2y + z = 2$
 $x + y + 2z = 0$
 x, y ও z এর সমাধানের সিরে পত্রিক নির্ণয় কর।

$$D = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 1 & 2 \end{vmatrix} = 1(4 - 1) - 1(2 - 1) + 1(1 - 2) = 1 - 1 - 1 = -1 \neq 0$$

এক, $D_1 = \begin{vmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \\ 0 & 1 & 2 \end{vmatrix} = 1(4 - 1) - 1(4 - 0) + 1(2 - 0) = 1$

$$D_2 = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 1 \\ 1 & 0 & 2 \end{vmatrix} = 1(4 - 0) - 1(2 - 1) + 1(0 - 2) = 1$$

$$D_3 = \begin{vmatrix} 1 & 1 & 1 \\ 1 & 2 & 2 \\ 1 & 1 & 0 \end{vmatrix} = 1(0 - 2) - 1(0 - 2) + 1(1 - 2) = -1$$

$$\therefore x = \frac{D_1}{D} = \frac{1}{-1} = -1$$

$$y = \frac{D_2}{D} = \frac{1}{-1} = -1$$

$$z = \frac{D_3}{D} = \frac{-1}{-1} = 1$$

\therefore সিরে পত্রিক সমাধান: $(x, y, z) = (-1, -1, 1)$ (Ans.)

(গ) $D = 8 \begin{vmatrix} \frac{p-q-r}{2} & p & p \\ q & \frac{q-r-p}{2} & q \\ r & r & \frac{r-p-q}{2} \end{vmatrix} = 8 \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \begin{vmatrix} p-q-r & 2p & 2p \\ 2q & q-r-p & 2q \\ 2r & 2r & r-p-q \end{vmatrix}$
 [প্রত্যেকটি সারিকে ২ দ্বারা গুণ করে।]
 $= 8 \times \frac{1}{8} \begin{vmatrix} p+q+r & p+q+r & p+q+r \\ 2q & q-r-p & 2q \\ 2r & 2r & r-p-q \end{vmatrix} = [r^2 = r_1 + r_2 + r_3]$

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IM Harris



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