$$\beta = \lim_{x \to 0} \frac{x^3 \left(1 + \dfrac{1}{3} - \dfrac{1}{2}\right)}{x^3} \quad \text{(Neglecting higher powers of } x)$$

So, $\beta = \dfrac{5}{6}$

or $6\beta = 5$

6. Let β be a real number. Consider the matrix $A = \begin{pmatrix} \beta & 0 & 1 \\ 2 & 1 & -2 \\ 3 & 1 & -2 \end{pmatrix}$. If $A^7 - (\beta - 1)A^6 - \beta A^5$ is a singular matrix, then

the value of 9β is _____.

Answer (3)

Sol. $A = \begin{pmatrix} \beta & 0 & 1 \\ 2 & 1 & -2 \\ 3 & 1 & -2 \end{pmatrix}$

det. $(A) = -1$ ...(1)

For $A^7 - (\beta - 1)A^6 - \beta A^5$ to be singular

$|A^5| \, |A^2 - (\beta - 1)A - \beta I| = 0$

$\Rightarrow \quad |A^5| \, |(A + I)(A - \beta I)| = 0$ ...(2)

$\therefore \quad |A^5| \, |A + I| \, |A - \beta I| = 0$

As $|A| \ne 0$

$|A + I|$ or $|A - \beta I| = 0$

$\Rightarrow \begin{pmatrix} \beta + 1 & 0 & 1 \\ 2 & 2 & -2 \\ 3 & 1 & -1 \end{pmatrix} = 0 \qquad \{|A + I| \ne 0\}$

Given, $-1 = 0$ (Rejected)

$\therefore \quad |A - \beta I| = \begin{vmatrix} 0 & 0 & 1 \\ 2 & 1 - \beta & -2 \\ 3 & 1 & -2 - \beta \end{vmatrix} = 0$

$\Rightarrow \quad 2 - 3(1 - \beta) = 0$

$\Rightarrow \quad 2 - 3 + 3\beta = 0$

$\Rightarrow \quad \beta = \dfrac{1}{3}$

$\therefore \quad 9\beta = 3$

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