Question Solution

BUET Admission Test 2005-2006

Mathematics

01. $2x^2 + 3x + 5 = 0$ সমীকরণের মূলদ্বয় α এবং β হলে $\frac{1}{\alpha^3}$ এবং $\frac{1}{\beta^3}$ মূলদ্বয় দ্বারা গঠিত সমীকরণটি নির্ণয় কর।

Solve: $\alpha + \beta = -\frac{3}{2}$, $\alpha\beta = \frac{5}{2}$; $\frac{1}{\alpha^3} + \frac{1}{\beta^3} = \frac{\alpha^3 + \beta^3}{\alpha^3\beta^3} = \frac{(\alpha+\beta)^3 - 3\alpha\beta(\alpha+\beta)}{(\alpha\beta)^3} = \frac{\left(-\frac{3}{2}\right)^3 - 3\times\frac{5}{2}\left(\frac{-3}{2}\right)}{\left(\frac{5}{2}\right)^3}$

$= \frac{27/8 + 45/4}{125/8} = \frac{117}{125}$; $\frac{1}{\alpha^3}\times\frac{1}{\beta^3} = \frac{1}{(5/2)^3} = \frac{8}{125}$

$\therefore$ নির্ণেয় সমীকরণ : $x^2 - \frac{117}{125}x + \frac{8}{125} = 0 \Rightarrow 125x^2 - 117x + 8 = 0$ (Ans.)

02. * যোগফল নির্ণয় কর : $(1^2 + 2^2) + (1^2 + 2^2 + 3^2) + \ldots\ldots$ up to (n-1) terms.

Solve: $S = 1^2 - 1^2 + (1^2 + 2^2) + \ldots$ $U_n = \frac{n(n+1)(2n+1)}{6}$

$\Rightarrow S + 1 = \sum\frac{n(n+1)(2n+1)}{6} = \frac{1}{6}\sum(n^2+n)(2n+1) = \frac{1}{6}\sum(2n^3+3n^2+n)$

$= \frac{1}{3}\cdot\frac{n^2(n+1)^2}{4} + \frac{1}{2}\cdot\frac{n(n+1)(2n+1)}{6} + \frac{1}{6}\cdot\frac{n(n+1)}{2}$ $\therefore S = \frac{1}{3}\cdot\frac{n^2(n+1)^2}{4} + \frac{n(n+1)(2n+1)}{12} + \frac{n(n+1)}{12} - 1$

03. সমাধান নির্ণয় কর : $1 - 2\sin\theta = \cos\theta$

Solve: $\cos\theta + 2\sin\theta = 1 \Rightarrow \frac{1}{\sqrt{5}}\cos\theta + \frac{2}{\sqrt{5}}\sin\theta = \frac{1}{\sqrt{5}} \Rightarrow \cos(\theta - \alpha) = \cos\alpha$

$\therefore \theta = 2n\pi + 2\alpha$; $2n\pi$. যেখানে, $\alpha = \cos^{-1}\frac{1}{\sqrt{5}}$ যদি, $\frac{1}{\sqrt{5}} = \cos\alpha \therefore \sin\alpha = \frac{2}{\sqrt{5}}$

04. একটি পরাবৃত্তের সমীকরণ নির্ণয় কর যার উপকেন্দ্র মূল বিন্দুতে অবস্থিত এবং $x - y + 1 = 0$ রেখাটি পরাবৃত্তকে এর শীর্ষবিন্দুতে স্পর্শ করে।

Solve: $SA = a = \frac{1}{\sqrt{1^2+1^2}} = \frac{1}{\sqrt{2}}$

যদি, নিয়ামকের সমীকরণ $x - y + k = 0$

উপকেন্দ্র $(0,0)$ থেকে নিয়ামকের দূরত্ব $\frac{0-0+k}{\sqrt{1^2+1^2}} = 2a = 2.\frac{1}{\sqrt{2}} = \sqrt{2}$

$\therefore k = 2$. $\therefore$ নিয়ামকের সমীকরণ : $x - y + 2 = 0$.

$\therefore$ নির্ণেয় সমীকরণ : $\{(x-0)^2 + (y-0)^2\}(1^2+1^2) = (x-y+2)^2 \Rightarrow (x+y)^2 = 4(x-y+1)$ (Ans.)

05. $(\sqrt{x})^{\sqrt{x}}$ এর অন্তরক সহগ নির্ণয় কর।

Solve: $y = (\sqrt{x})^{\sqrt{x}} \Rightarrow \ln y = \sqrt{x}.\ln\sqrt{x} \Rightarrow \frac{1}{y}\frac{dy}{dx} = \frac{1}{2\sqrt{x}}\ln\sqrt{x} + \frac{1}{\sqrt{x}}\cdot\frac{1}{2\sqrt{x}}\cdot\sqrt{x}$

$\frac{dy}{dx} = (\sqrt{x})^{\sqrt{x}}\cdot\left\{\frac{1}{2\sqrt{x}}.\ln\sqrt{x} + \frac{1}{\sqrt{x}}\cdot\frac{1}{2\sqrt{x}}.\sqrt{x}\right\} = \frac{(\sqrt{x})^{\sqrt{x}}}{2\sqrt{x}}(\ln\sqrt{x}+1) = \frac{1}{2}.(\sqrt{x})^{\sqrt{x}-1}(\ln\sqrt{x}+1)$

$= \frac{1}{2}.(\sqrt{x})^{\sqrt{x}-1}(\frac{1}{2}\ln x + 1)$ (Ans.)

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