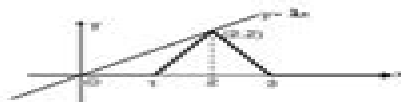


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HINTS & SOLUTIONS
PAPER-1
PART - I MATHEMATICS

 1. If α, β are the roots.....

Sol. Using transformation of roots.

2. For the equation.....

Sol.

 3. If $m, n \in \mathbb{N}$ such.....

Sol. $m - n = 4n^2 - 3m^2$

$$\begin{aligned} \therefore (m - n)(3m + 3n + 1) &= 3m^2 - 3n^2 + m - n \\ &= 3m^2 - 3n^2 + 4n^2 - 3m^2 \\ &= n^2. \end{aligned}$$

 Hence divisible by n^2 .

$$(m - n)(4m + 4n + 1) = 4m^2 - 4n^2 + 4n^2 - 3m^2 = m^2.$$

 Hence divisible by m^2 .

 4. Let f is the greatest.....

Sol. $f(x) = [x] \quad g(x) = [x]$

$$(f \circ g)(x) = f(g(x)) = f([x]) = [x]$$

$$(g \circ f)(x) = [x]$$

$$(A) (g \circ f) \left(\left\lfloor \frac{-5}{3} \right\rfloor \right) = (g \circ f) \left(\left\lfloor \frac{-5}{3} \right\rfloor \right) = \left(\left\lfloor \left\lfloor \frac{-5}{3} \right\rfloor \right\rfloor \right)$$

$$= \left\lfloor \left\lfloor \frac{-5}{3} \right\rfloor \right\rfloor = \left\lfloor \left\lfloor \frac{-5}{3} \right\rfloor \right\rfloor = -2 \mid -\left\lfloor \frac{5}{3} \right\rfloor$$

$$= 2 - 1 = 1$$

$$(B) (f + 2g)(-1) = f(-1) + 2g(-1)$$

$$= [-1] + 2[-1] = -1 + 2 = 1$$

$$(C) (g \circ f) \left(\left\lfloor \frac{5}{3} \right\rfloor \right) = (f \circ g) \left(\left\lfloor \frac{5}{3} \right\rfloor \right)$$

$$= \left\lfloor \left\lfloor \frac{5}{3} \right\rfloor \right\rfloor = \left\lfloor \left\lfloor \frac{5}{3} \right\rfloor \right\rfloor = [1] = \left\lfloor \frac{5}{3} \right\rfloor = 1 - 1 = 0$$

$$(D) (f + 2g)(1) = f(1) + 2g(1) = [1] + 2[1] = 1 + 2 = 3$$

 5. If $\log_{\frac{1}{2}}(x^2 - 8x + 23) > 0$

Sol. $\log_{\frac{1}{2}}(x^2 - 8x + 23) > 3 \log_{\frac{1}{2}} 2 > 0$

$$\log_{\frac{1}{2}} \left(\frac{x^2 - 8x + 23}{8} \right) > 0$$

$$0 < (\sin x) < 1 \Rightarrow x \in \mathbb{R} - \{n\pi, (4n \pm 1) \frac{\pi}{2}\}, n \in \mathbb{Z}$$

$$\Rightarrow x \in 0, \frac{\pi}{2}, \pi, \frac{3\pi}{2} \quad \text{---(i)}$$

$$\therefore \frac{x^2 - 8x + 23}{8} < 1$$

$$\Rightarrow x^2 - 8x + 15 < 0$$

$$\Rightarrow x \in (3, 5) \quad \text{---(ii)}$$

(i) and (ii)

$$\Rightarrow x \in (3, \pi) \cup \left(\pi, \frac{3\pi}{2} \right) \cup \left(\frac{3\pi}{2}, 5 \right)$$

 6. Let a, b, c be the three.....

Sol. $D = (b^2 + c^2 - a^2)^2 - 4b^2c^2$

$$D = (b^2 + c^2 - a^2 - 2bc)(b^2 + c^2 - a^2 + 2bc)$$

$$D = [(b - c)^2 - a^2][(b + c)^2 - a^2]$$

$$D = (b - c + a)(b - c - a)(b + c + a)(b + c - a)$$

$$D = -(a + b - c)(c + a - b)(b + c - a)(b + c + a) < 0$$

 (as sum of two sides > third side of Δ)

 $\Rightarrow D < 0$ and parabola is upward

 Hence $f(x) > 0 \forall x \in \mathbb{R}$

 7. If $f(x) = \frac{\sin^2 x + 4 \sin x + 5}{2 \sin^2 x + 8 \sin x + 8}$

Sol. $f(x) = \frac{(\sin x + 2)^2 + 1}{2(\sin x + 2)^2}$

$$= \frac{1}{2} + \frac{1}{2(\sin x + 2)^2}$$

$$\therefore 1 \leq (\sin x + 2)^2 \leq 9$$

$$\frac{1}{18} \leq \frac{1}{2(\sin x + 2)^2} \leq \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{18} \leq \frac{1}{2} + \frac{1}{2(\sin x + 2)^2} \leq \frac{1}{2} + \frac{1}{2}$$

$$\frac{5}{9} \leq f(x) \leq 1$$

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