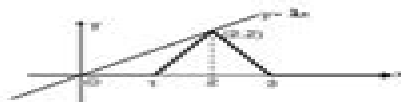


**DATE : 29-07-2018 | CLASS XII/XIII | COURSE : ALL INDIA TEST SERIES (VIKALP)**
**HINTS & SOLUTIONS**
**PAPER-1**
**PART-I MATHEMATICS**

 1. If  $\alpha, \beta$  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.**  $f(x) = [x]$        $g(x) = [x]$ 

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

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

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

$$= \left[ \left[ \frac{-5}{3} \right] \right] = \left[ \frac{-5}{3} \right] = -2 = \left[ \frac{-5}{3} \right]$$

$$= -2 - 1 = -1$$

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

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

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

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

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

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

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

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

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

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

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

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

(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  $\Delta$ )

 $\Rightarrow D < 0$  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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**S. Geschwind**



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### **Table of Contents Resonance Aits Question Papers**

1. Understanding the eBook Resonance Aits Question Papers
  - The Rise of Digital Reading Resonance Aits Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Resonance Aits Question Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Resonance Aits Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Resonance Aits Question Papers
  - Personalized Recommendations

- Resonance Aits Question Papers User Reviews and Ratings
- Resonance Aits Question Papers and Bestseller Lists
- 5. Accessing Resonance Aits Question Papers Free and Paid eBooks
  - Resonance Aits Question Papers Public Domain eBooks
  - Resonance Aits Question Papers eBook Subscription Services
  - Resonance Aits Question Papers Budget-Friendly Options
- 6. Navigating Resonance Aits Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Resonance Aits Question Papers Compatibility with Devices
  - Resonance Aits Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Resonance Aits Question Papers
  - Highlighting and Note-Taking Resonance Aits Question Papers
  - Interactive Elements Resonance Aits Question Papers
- 8. Staying Engaged with Resonance Aits Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Resonance Aits Question Papers
- 9. Balancing eBooks and Physical Books Resonance Aits Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Resonance Aits Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Resonance Aits Question Papers
  - Setting Reading Goals Resonance Aits Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Resonance Aits Question Papers
  - Fact-Checking eBook Content of Resonance Aits Question Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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