

$$\frac{1}{\cot A (1 - \cot A)} - \frac{\cot^2 A}{(1 - \cot A)} = \frac{1 - \cot^2 A}{\cot A (1 - \cot A)} = \frac{\operatorname{cosec}^2 A + \cot A}{\cot A} = 1 + \sec A \operatorname{cosec} A$$

45. The real number  $k$  for which the equation,  $2x^2 + 3x + k = 0$  has two distinct real roots in  $[0, 1]$
- (1) lies between 2 and 3 (2) lies between -1 and 0  
(3) does not exist (4) lies between 1 and 2

**Sol.** (3)

If  $2x^2 + 3x + k = 0$  has 2 distinct real roots in  $[0, 1]$ , then  $f'(x)$  will change sign but  $f'(x) = 4x + 3 > 0$ .  
So no value of  $k$  exists.

46.  $\lim_{x \rightarrow 0} \frac{(1 - \cos 2x)(3 + \cos x)}{x \tan 4x}$  is equal to

- (1)  $\frac{1}{2}$  (2) 1  
(3) 2 (4)  $-\frac{1}{4}$

**Sol.** (3)

$$\lim_{x \rightarrow 0} \frac{(1 - \cos 2x)(3 + \cos x)}{x \tan 4x}$$

$$\lim_{x \rightarrow 0} 2 \left( \frac{\sin x}{x} \right)^2 \cdot \frac{1}{4} \left( \frac{4x}{\tan 4x} \right) (3 + \cos x) = 2 \times 1 \times \frac{1}{4} \times 1 \times (3 + 1) = 2.$$

47. Let  $T_n$  be the number of all possible triangles formed by joining vertices of an  $n$ -sided regular polygon. If  $T_{n+1} - T_n = 10$ , then the value of  $n$  is
- (1) 5 (2) 10  
(3) 8 (4) 7

**Sol.** (1)

$${}^{n+1}C_3 - {}^nC_3 = 10 \Rightarrow {}^nC_2 = 10 \Rightarrow n = 5.$$

48. At present, a firm is manufacturing 2000 items. It is estimated that the rate of change of production  $P$  w.r.t. additional number of workers  $x$  is given by  $\frac{dP}{dx} = 100 - 12\sqrt{x}$ . If the firm employs 25 more workers, then the new level of production of items is
- (1) 3000 (2) 3500  
(3) 4500 (4) 2500

**Sol.** (2)

$$\int_{2000}^P dP = \int_0^{25} (100 - 12\sqrt{x}) dx$$

$$(P - 2000) = 25 \times 100 - \frac{12 \times 2}{3} (25)^{3/2}$$

$$P = 3500.$$

49. **Statement - I :** The value of the integral  $\int_{\pi/6}^{\pi/2} \frac{dx}{1 + \sqrt{\tan x}}$  is equal to  $\frac{\pi}{6}$ .

**Statement - II :**  $\int_a^b f(x) dx = \int_a^b f(a+b-x) dx$ .

- (1) Statement - I is True; Statement - II is true; Statement-II is not a correct explanation for Statement-I  
(2) Statement - I is True; Statement - II is False.

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**Er. Sunil Batra**



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### **Table of Contents Jee Main 2013 Question Paper With Solutions**

1. Understanding the eBook Jee Main 2013 Question Paper With Solutions
  - The Rise of Digital Reading Jee Main 2013 Question Paper With Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Jee Main 2013 Question Paper With Solutions
  - 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 Jee Main 2013 Question Paper With Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Main 2013 Question Paper With Solutions
  - Personalized Recommendations
  - Jee Main 2013 Question Paper With Solutions User Reviews and Ratings

- Jee Main 2013 Question Paper With Solutions and Bestseller Lists
- 5. Accessing Jee Main 2013 Question Paper With Solutions Free and Paid eBooks
  - Jee Main 2013 Question Paper With Solutions Public Domain eBooks
  - Jee Main 2013 Question Paper With Solutions eBook Subscription Services
  - Jee Main 2013 Question Paper With Solutions Budget-Friendly Options
- 6. Navigating Jee Main 2013 Question Paper With Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Jee Main 2013 Question Paper With Solutions Compatibility with Devices
  - Jee Main 2013 Question Paper With Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jee Main 2013 Question Paper With Solutions
  - Highlighting and Note-Taking Jee Main 2013 Question Paper With Solutions
  - Interactive Elements Jee Main 2013 Question Paper With Solutions
- 8. Staying Engaged with Jee Main 2013 Question Paper With Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jee Main 2013 Question Paper With Solutions
- 9. Balancing eBooks and Physical Books Jee Main 2013 Question Paper With Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Jee Main 2013 Question Paper With Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jee Main 2013 Question Paper With Solutions
  - Setting Reading Goals Jee Main 2013 Question Paper With Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jee Main 2013 Question Paper With Solutions
  - Fact-Checking eBook Content of Jee Main 2013 Question Paper With Solutions
  - 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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