

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

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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Michal Rosen-Zvi



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