

Jee Advance 2013

Mathematics Paper- II

PART III - MATHEMATICS

SECTION - 1 : (One or more options correct Type)

This section contains 8 multiple choice questions. Each question has four choices (A), (B), (C) and (D), out of which **ONE or MORE** are correct.

41. In a triangle PQR , P is the largest angle and $\cos P = 1/3$. Further the incircle of the triangle touches the sides PQ , QR and RP at N , L and M respectively, such that the lengths of PN , QL and RM are consecutive even integers. Then possible length(s) of the side(s) of the triangle is(are)

(A) 16 (B) 18 (C) 24 (D) 22

41. (BD) $PM = 2k - 2$, $RL = 2k + 2$, $QN = 2k$
 $PQ = 4k - 2$, $QR = 4k + 2$, $RP = 4k$

$$\cos P = \frac{1}{3} = \frac{(4k-2)^2 + 16k^2 - (4k+2)^2}{2(4k-2) \cdot 4k} \Rightarrow k = 0, 5$$

For $k = 0$, PQ is negative.

For $k = 5$, sides 18, 20, 22 units.

42. Two lines $L_1 : x = 5$, $\frac{y}{3-\alpha} = \frac{z}{-2}$ and $L_2 : x = \alpha$, $\frac{y}{-1} = \frac{z}{2-\alpha}$ are coplanar. Then α can take value(s)

(A) 1 (B) 2 (C) 3 (D) 4

42. (AD) Point on first line can be considered as $(5, 3-\alpha, -2)$

Point on second line : $(\alpha, -1, 2-\alpha)$

$$\begin{vmatrix} 5-\alpha & 4-\alpha & \alpha-4 \\ 0 & 3-\alpha & -2 \\ 0 & -1 & 2-\alpha \end{vmatrix} = 0 \Rightarrow \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1-\alpha & -2 \\ 0 & 1-\alpha & 2-\alpha \end{vmatrix} = 0$$

$$\Rightarrow (1-\alpha) \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1 & -2 \\ 0 & 1 & 2-\alpha \end{vmatrix} = 0 \Rightarrow (1-\alpha) [(5-\alpha)(4-\alpha)] = 0$$

$$\Rightarrow \alpha = 1, 4, 5.$$

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Judi Bamford, Keith J. Topping



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