

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 : $(\alpha, -1, 2-\alpha)$

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

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

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

Monday 4th March 2013 Maths Paper Hig

Annelies Wilder-Smith



Monday 4th March 2013 Maths Paper Hig:

Monday 4th March 2013 Maths Paper Hig Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Monday 4th March 2013 Maths Paper Hig**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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