

10. Let a_1, a_2, a_3, \dots be an arithmetic progression with $a_1 = 7$ and common difference 8. Let T_1, T_2, T_3, \dots be such that $T_1 = 3$ and $T_{n+1} - T_n = a_n$ for $n \geq 1$. Then, which of the following is/are TRUE ?

(A) $T_{20} = 1604$

(B) $\sum_{k=1}^{20} T_k = 10510$

(C) $T_{30} = 3454$

(D) $\sum_{k=1}^{30} T_k = 35610$

Answer (B, C)

Sol. Here $a_n = 7 + (n-1)8$ and $T_1 = 3$

Also $T_{n+1} = T_n + a_n$

$T_n = T_{n-1} + a_{n-1}$

\vdots

$T_2 = T_1 + a_1$

$\therefore T_{n+1} = (T_{n-1} + a_{n-1}) + a_n$

$= T_{n-2} + a_{n-2} + a_{n-1} + a_n$

\vdots

$\Rightarrow T_{n+1} = T_1 + a_1 + a_2 + \dots + a_n$

$\Rightarrow T_{n+1} = T_1 + \frac{n}{2} [2(7) + (n-1)8]$

$\Rightarrow T_{n+1} = T_1 + n(4n+3) \quad \dots (1)$

\therefore For $n = 19$ $T_{20} = 3 + (19)(79) = 1504$

For $n = 29$ $T_{30} = 3 + (29)(119) = 3454 \rightarrow (C)$

$\sum_{k=1}^{20} T_k = 3 + \sum_{k=2}^{20} T_k = 3 + \sum_{k=1}^{19} (3 + 4n^2 + 3n)$

$= 3 + 3(19) + \frac{3(19)(20)}{2} + \frac{4(19)(20)(39)}{6}$

$= 3 + 10507 = 10510 \rightarrow (B)$

And Similarly $\sum_{k=1}^{30} T_k = 3 + \sum_{k=1}^{29} (4n^2 + 3n + 3) = 35615$

11. Let P_1 and P_2 be two planes given by

$P_1: 10x + 15y + 12z - 60 = 0,$

$P_2: -2x + 5y + 4z - 20 = 0.$

Which of the following straight lines can be an edge of some tetrahedron whose two faces lie on P_1 and P_2 ?

(A) $\frac{x-1}{0} = \frac{y-1}{0} = \frac{z-1}{5}$

(B) $\frac{x-6}{-5} = \frac{y}{2} = \frac{z}{3}$

(C) $\frac{x}{-2} = \frac{y-4}{5} = \frac{z}{4}$

(D) $\frac{x}{1} = \frac{y-4}{-2} = \frac{z}{3}$

Answer (A, B)

Sol. Equation of pair of planes is

$S: (10x + 15y + 12z - 60)(-2x + 5y + 4z - 20) = 0$

We will find a general point of each line and we will solve it with S . If we get more than one value of variable λ , then the line can be the edge of given tetrahedron.

Jee Advanced 2013 Mathematics Paper Analysis

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