

تکلیف شماره ١٢

لوحه دوم بنویسید (مستند)

زبان منی

$t_n = 5, 9, 13, 17, \dots$ $t_n = 5 + (n-1) \cdot 4 = 4n + 1$ ۱- الف

$\xrightarrow{+4} \xrightarrow{+4} \xrightarrow{+4}$

$t_{10} = (5 \times 10) + 1 = 51$ ب

$t_n = 9, 10, 11, 12, \dots$ $t_n = n + 2$ $S_{10} = \frac{10}{2} (9 + 12) = 105$ ۲- الف

$\xrightarrow{+1} \xrightarrow{+1} \xrightarrow{+1}$

$\hookrightarrow t_{10} = 10 + 2 = 12$ $S = \frac{n}{2} (a + l)$

$t_{19} + t_{20} + t_{21} + t_{22} = t_{29} + t_{30} = t_{30} + t_{31}$ $\rightarrow 2 \times 18 \times 12 = 296$ ب

$4 \times 12 + 12 \times 2 = 24 \times 2$

$1 + \sqrt{3}, 2, 3 - \sqrt{3}$ $d = 3 - \sqrt{3} - 1 - \sqrt{3} = 2 - 2\sqrt{3} = 1 - \sqrt{3}$ ۳

$t_{10} - t_{13} = 2d \rightarrow 2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$

$\Delta^{2m} + \Delta^y = 2 \times 2 \times \Delta^{2m} \Rightarrow \Delta^{2m} + \Delta^y = 4 \Delta^{2m} \rightarrow \Delta^y = \Delta^{2m} (4 - 1)$ ۴

$\Delta^y = \Delta^{2m+1} \rightarrow y = 2m+1 \rightarrow m+y = 2(2) = 4 \rightarrow \frac{2m+1+m}{2} = 2 \rightarrow m=1 \rightarrow y=3$

$2n - 1 + 9n = 2(2n+1) \Rightarrow 11n - 1 = 4n + 2 \rightarrow 7n = 3 \rightarrow n = \frac{3}{7}$ ۵

$-1, 0, 1, \dots$ $\Rightarrow t_n = n - 1 \rightarrow t_f = 11 - 1 = 10$

$\hookrightarrow t_n = a + (n-1)d \rightarrow t_f = 1 + 3(10) = 31$

$5, 11, 17, \dots$ $t_n = 6n - 1$ $a_{10} = (5 \times 10) + 1 = 51$ ۶

$4n - 1 \leq 51 \rightarrow n \leq 13$ دو

$\hookrightarrow a_n = 2n + 1 \Rightarrow 51$
 $b_n = 3n - 1 \Rightarrow 59$

$$a_1 + a_r + a_p = a - d, a, a + d \Rightarrow a_1 + a_r + a_p = 3a \Rightarrow \text{---} \quad -V$$

$$a_r = V \Rightarrow a + d = V \quad a_1 + a_r + a_p = 3a \Rightarrow a_r = V$$

$$\begin{aligned} a + d &= V \\ a + d &= V \Rightarrow a = -V \\ \frac{a+d}{a} &= \frac{V}{-V} = -1 \end{aligned} \quad \begin{aligned} a + d &= V \\ d &= V \\ a &= -V \end{aligned} \quad \begin{aligned} a_r &= a_1 + a_3 = a_p \\ a_1 + a_3 &= a_1 + a_3 = a_p \end{aligned}$$

$$a_1 + a_r + a_p = 3a \Rightarrow a + d = 3a \Rightarrow a + d = 3a \quad -A$$

$$a_1 + a_3 = 3a \Rightarrow a + d = 3a \quad a = V$$

$$a_1 = a + d \Rightarrow a_1 = V + d = 2V \quad \begin{aligned} a + d &= 3a \\ d &= 2a \end{aligned}$$

$$\frac{1}{x} (a + a + Ad) = \frac{1}{x} (a + a + d) \Rightarrow 9a + 9d = 2Va + 2Vd - 9$$

$$9d = 2Va \Rightarrow a = \frac{9d}{2V} \quad \frac{a_1}{a} = \frac{a + 9d}{a + d} = \frac{\frac{9d}{2} + 9d}{\frac{9d}{2} + d} = \frac{\frac{18d + 18d}{2}}{\frac{9d + 2d}{2}} = \frac{36d}{11d} = \frac{36}{11}$$

$$\begin{aligned} a_1 &= 11 \\ a_1 &= a + d = 11 + d = 11 \Rightarrow d = 0 \\ a_1 &= a + d = 11 + d = 11 \Rightarrow d = 0 \end{aligned} \quad \begin{aligned} a &= 11 \\ a_1 &= a + d = 11 + d = 11 \Rightarrow d = 0 \end{aligned} \quad -10$$

$$\begin{aligned} b_n &= 11, \dots, 11 \Rightarrow b_n = 11 \Rightarrow b_n = b_1 + d \Rightarrow 11 = 11 + d \Rightarrow d = 0 \\ b_1 &= 11 \end{aligned} \quad \begin{aligned} d &= \frac{11 - 11}{n+1} = 0 \Rightarrow -11 = -11n - d \Rightarrow n = 1 \end{aligned}$$