

تلف سہا، ۱۳۵

گروه دهم انجمنه زنتی

زبان زنتی ۲۵

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$$t_1 = 10 \quad t_n = t_1 + (n-1)d \rightarrow t_n = 10 + (n-1)d$$

$$t_1 + 3d = 91 \rightarrow t_4 = 10 + 3d = 91 \rightarrow 3d = 81 \rightarrow d = 27$$

$$t_n = 10 + (n-1)27 = 201 \rightarrow 191 = (n-1)27 \rightarrow n-1 = 7 \rightarrow n = 8$$

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$$100 \leq 1n + 1 \leq 999 \rightarrow 99 \leq 1n \leq 998 \rightarrow 111 \leq n \leq 142$$

$$142 - 14 + 1 = 129 \rightarrow 129 \text{ عدد زوج}$$

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$$a_1 + a_2 = a + 12d + a + 1d = 2a + 13d \quad a_1 + a_2 + a_3 = 3a + 9d = 9$$

$$a_1 + a_2 + a_3 = 3a + 9d = 9$$

$$\begin{cases} 3a + 9d = 9 \\ 3a + 9d = 0 \end{cases} \Rightarrow \begin{cases} 3d = 9 \rightarrow d = 3 \\ a = 0 \end{cases} \Rightarrow 1(9) + 11(-3) = -24$$

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$$\frac{a + 12d}{a_1 + a_2} = \frac{a + d}{2} \quad \frac{2^n - 1 + 2^{2n} - 1}{2} = 2^{n+1} \rightarrow 2^{2n} + 2^n - 1 = 2^{n+1}$$

$$2^{2n} \rightarrow 2^n \times 2^n \rightarrow f(2^n) \Rightarrow \text{if } 2^n = n \rightarrow n + n - 1 - f(n) = n - 1 - f(n) = 0$$

$$\frac{(n-1)(n+1)}{2} \rightarrow 2^n = 2 \times 1 \rightarrow 2^n = 2 \rightarrow n = 1$$

$$2^{2n} - 1 = 13, 2^{n+1} = 1, 2^n - 1 = 3 \rightarrow 1 + 1 + 13 = 15$$

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$$a + 11d + a + 9d = 2a + 20d = 20 \rightarrow a + 10d = 10, a$$

$$a + 11d - a - 9d = 2d = 5 \rightarrow d = 5 \rightarrow a + 10(5) = 10, a$$

$$a = -10, a + 10d = -10 + 10(5) = 40$$

زنتی

$$a + a + d + a + r d + a + r d + a + r d = \frac{1}{r} (a + a d + a + r d + a + r d + a + r d) \quad -9$$

$$a + 1 \cdot d = \frac{(a + r d)}{r} \quad \frac{a + r d}{r} + \frac{r d}{r} \rightarrow \frac{1}{r} a = \frac{a}{r} d \rightarrow r a = d$$

$$a_1 = a + d, a_1 = a \rightarrow \frac{a_1}{a} = \frac{a + d}{a} = \frac{a + r a}{a} = \frac{r a}{a} = r$$

$$(a + r d)^r - (a + r d)^r \rightarrow a^r + r^r d^r + r^r a d - a^r - r^r d^r - r^r a d \quad -1$$

$(r d^r + r a d) = r d (r d + a)$

$$a_1 = a + 1 \rightarrow a_1 = (n-1) + a \rightarrow (n-1) d = 1 \rightarrow d = 1$$

$$n d (r d + a) = n a d = r$$

$$(r + \sqrt{r}) - (r + \sqrt{r}) = 12\sqrt{r}$$

$$12\sqrt{r} = \sqrt{r}$$

$$t_1 = r, t_{n-1} = r \rightarrow t_k = r + (k-1)d$$

$$t_{n-1} = r + (n-1)d = r \rightarrow (n-1)d = 0 \rightarrow d = \frac{0}{n-1} = 0$$

$$t_{n+1} = r + n d = 1 \rightarrow n d = 1 \rightarrow n \times \frac{1}{n-1} = 1 \rightarrow 1 \times n = 1 \times n - 1$$

$n = 1 \rightarrow n = 1$

$$a_1 + a_1 = r a + 1 n d = a + (n-1)d + a + (n+1)d \rightarrow 1 = r n + r$$

$r = r n \rightarrow n = 1$

$$a_1 = r a, a + r d = r(a + r d) \rightarrow 0 = r a + r d \rightarrow a = -d$$

$$a_k = a + (k-1)d = -d + (k-1)d = (k-1)d$$

$(k-1)d = 0$
 $k = 1$

شماره