

$$t_1 = f_0$$

$$t_f = 41$$

$$\left. \begin{array}{l} r_d = r_1 \\ d = v \end{array} \right\}$$

$$v_n + r_2 = r_0 \Lambda$$

$$\boxed{n = r_d}$$

(1)

$$t_n = f_0 + (n-1)v \rightarrow v_n + r_2$$

$$101 \leq v_n + r_2 \leq 99v \quad t_n = v_n + r_2$$

(2)

$$\begin{array}{c} 14f \\ \leftarrow \\ 99v \end{array}$$

درستی

$$101 \leftarrow n = 14 = \text{اولین}$$

$$\frac{99v - 101}{v} + 1 = 129$$

$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 12$$

$$a_{14} + a_n \quad (3)$$

$$\left. \begin{array}{l} n=0 \rightarrow a_1 + a_2 + a_3 = 12 \\ n=1 \rightarrow a_2 + a_3 + a_4 = 4 \end{array} \right\} \quad (4)$$

$$a_1 - a_4 = 4$$

$$-r_d = 4$$

$$d = -r$$

$$t_n = 4 + (n-1) - r$$

$$t_n = 11 - r_n$$

$$r a_1 + r d = 12 \rightarrow a = 4$$

$$(a_1 + d) = (r) \rightarrow a = 4$$

$$a_{14} + a_n = 11 - 14 = -3$$

$$-24 + (-3) = -27 \quad + a_{14} = -24 \quad 11 - 34 = -23$$

مجموع این سه جمله

$$r^{2n} - r, r^{n+1}, r^n - 1$$

(5)

$$t_n = \frac{t_{1r} + t_r}{r} \rightarrow$$

$$a_1 + r d = \frac{r a_1 + r d}{r}$$

$$r t_n = t_{1r} + t_r$$

$$r(r^{n+1}) = r^n - 1 + r^n - r$$

$$r^n \times r = (r^n)^r - r$$

$$r^{n+r} = r^n + r^n - r$$

$$0^r - r_0 - f = 0 \quad 0 = r$$

$$r^n = f \quad n = r$$

$$r^r - r + r^r + r^r - 1 = 14 + 1$$

$$t_{ir} - t_{io} = a$$

$$r t_{ir} = r_0$$

$$t_{ir} + t_{io} = 2a$$

$$t_{ir} = 1a$$

$$t_{io} = 1a$$

②

$$t_{ri} = t_{io} + 1a$$

$$t_{ir} - t_{io} = a$$

$$r d = a$$

$$d = \frac{a}{r}$$

$$t_{ri} = 1a + r v_1 a$$

$$t_{ri} = r v_1 a$$

$$S_a = \frac{1}{\mu} (t_u + t_v + t_n + t_a + t_{io})$$

④

$$\frac{a}{r} (r a_1 + r d) = \frac{1}{\mu} \times \frac{a}{r} \times (r a_1 + r d)$$

$$[a a_1 + 1 d] = \frac{1}{\mu} \times a a_1 + r a d] \times \mu$$

$$\mu (a a_1 + r d) = a (a_1 + r d)$$

$$\mu a_1 + r d = a_1 + r d$$

$$r a_1 = d$$

$$\frac{t_r}{t_i} = \frac{a_1 + r a_1}{a_1} = \frac{r a_1}{a_1} = \frac{r}{1}$$

$$\boxed{\mu}$$

$$t_{ri} - t_{io} = a$$

$$t_n = t_{n-r} + 1a$$

$$t_n$$

⑤

$$(t_a - t_o) (t_a + t_o)$$

$$t_r = t_i + 1a$$

$$t_r = t_i + r d$$

$$d = a$$

$$r d = r_0$$

$$r a_1 + r_0$$

$$t_{ri} - t_{io} = a$$

$$\frac{(r a_1 + r_0) \times r_0}{(a_1 + r_0) \times 1} = r_0$$

$$= r_0$$

① $2(1 - \sqrt{3})$ و $2 + \sqrt{3}$ دوازدهم صاعده شروع شده.

قد نسبت به دست یازدهم شروع از $2(1 - \sqrt{3})$

$$\frac{t_{12} - t_{11}}{1 + \text{مقدار دوازدهم}} = \frac{2 + \sqrt{3} - 2 + 12\sqrt{3}}{13} = \frac{14\sqrt{3}}{13} = \sqrt{3}$$

|| z^{n+1}

$4n - 3$

② $2, 3, 2$

شروع از 2

$$2, \underbrace{\quad \quad \quad}_{4n - 3}, 3, 2$$

$$\frac{32 - 2}{4n - 2 + 1} = \frac{*(15)}{*(2n - 1)} = d = \frac{10}{2n - 1}$$

و اسیله نام $n+1$ است $t_{n+1} = 11 = 2 + (n+1-1) \frac{10}{2n-1}$

$$11n - 9 = 15n$$

$$2n = 9 \quad n = 3$$

$$9 = \frac{15n}{2n-1}$$

۱. نام $n+4$ و مجموع سوم و ۱۷ام برابر است.

اگر جمله n به $\frac{n}{2}$ باشد چند جمله صفر است؟

$$t_n + t_{n+4} = t_3 + t_{17}$$

$$a_1 + nd - d + a_1 - nd + 4d = 2a_1 + 12d$$

$$2a_1 + 4nd + 4d = 2a_1 + 12d$$

$$2nd = 8d$$

$$2n = 8$$

$$n = 4$$

$$t_n = 3 \times t_3$$

$$a_1 + vd = 3(a_1 + 4d)$$

$$a_1 + vd = 3a_1 + 12d$$

$$2a_1 = -vd$$

$$a_1 = -d$$

پس جمله دوم صفر است.