

(طالع‌بینی)

$$t_n = 5, 9, 13, 17, \dots$$

$$t_n = 5 + (n-1)4 = 4n + 1$$

$$t_{10} = 40 + 1 = 41$$

$$t_n = 6, 10, 14, 18, \dots$$

$$s_n = \frac{n}{2} (2a_1 + (n-1)d)$$

$$s_{10} = 5(12 + (9)4) = 220$$

۲۹، ۳۰، ۳۱، ۳۲ ← جمله هشتم

$$s_{32} - s_{18} = 16(12 + (31)4) - 18(12 + (17)4) =$$

$$2176 - 1440 = 736$$

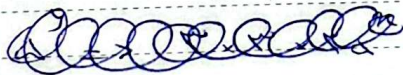
$$d = \frac{t_m - t_n}{m - n}$$

$$\frac{t_{25} - t_{23}}{2} = 1 - \sqrt{3}$$

$$(2 - 2\sqrt{3})$$

$$a_n = a^{r_n}, r_n \cdot r_0^n, a^y$$

$$a^{r_n} = r_0^n$$



$$d = r \times r_0^n - r_0^n = r \times r_0^n \quad r \times r_0^n + r \times r_0^n = a \times r_0^n$$

$$a^{r_n} \times a = a^{r_{n+1}} = a^y$$

$$b_n = n, r_{\frac{n}{2}}, r_{n+1}$$

$$r_n = r_{n-1} \quad r_n = r \quad n=1$$

$$y = r_{n+1} \rightarrow y = r$$

$$(n-1) = (r)$$

(تعال حضرت زینب سلام الله علیها (۶۲ هـ ق) - تغییر قبله مسلمان از بیت المقدس به مکه معظمه (۲ هـ ق))

$$d = r\pi - 1 - (r\pi - \varepsilon) \cdot \pi$$

$$r\pi - 1 + \pi = r\pi \quad r\pi + \pi = r\pi \quad \pi + 1 = r\pi$$

$$\pi = \pi/d$$

$$t\varepsilon = -\pi + (\pi)\pi = (4)$$

$$a_n = \pi, \delta, \nu, \dots \rightarrow a, (1), \pi \rightarrow a\pi = \pi + (1)\pi = \varepsilon$$

$$b_n = \pi, \delta, \pi, \dots \rightarrow (1), \varepsilon \rightarrow b\pi = \pi + (1)\pi = \delta$$

$$a_1 = 11 \quad d = \pi + \pi = (4)$$

$$11 + (n-1)4 \leq \varepsilon 1$$

$$4n - 3 \leq \varepsilon 1$$

$$4n \leq \varepsilon 4$$

$$n \leq \varepsilon$$

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$$a(1 + \pi + \pi + \pi + \pi) = a(1 + d - (\pi + \varepsilon d))$$

$$- \pi d = -1\varepsilon \quad d = \pi$$

$$a_1 + \pi + \pi + \pi = \pi a_1 + \pi d = \pi 1 \quad a_1 + \pi \pi = \nu \quad a_1 = -\pi 1$$

$$a\pi - a\pi + a_1 = a_1 + \pi d - \pi - \pi + \pi = a_1 + \pi d = \nu$$

$$\frac{\nu}{a_1} = \frac{\nu}{-\pi 1} = \left(-\frac{1}{\pi}\right)$$

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$$a + a\pi + a\pi = 1\varepsilon \rightarrow \pi a_1 + \pi d = \varepsilon \rightarrow a_1 + d = a \frac{\pi}{\pi}, \pi a_1 + \pi d = 1\varepsilon$$

$$a\varepsilon + a\varepsilon = \pi a \rightarrow \pi a_1 + \pi d = \pi a$$

$$\pi a_1 + \pi d - \pi a_1 + \pi d = \pi d = 1\varepsilon \quad d = \pi$$

$$a_1 + d = d \rightarrow a_1 + \pi = a \rightarrow a_1 = \pi$$

$$a_1 = \pi + (1)\pi = (2\pi)$$

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$$S_9 = 9S_4$$

$$\frac{a}{r} (a_1 + a_2) = a \times \frac{n}{r} (a_1 + a_n)$$

$$\frac{a}{r} (2a_1 + (n-1)d) = \frac{2V}{r} (2a_1 + (n-1)d)$$

$$2a_1 + (n-1)d = 2Va_1 + 2Vd$$

$$18a_1 = 9d$$

$$2a_1 = d$$

$$a_1 = \frac{1}{2}d$$

$$\frac{a_{20}}{a_5} = \frac{\frac{1}{2}d + 19d}{\frac{1}{2}d + 4d} = \frac{\frac{39}{2}d}{\frac{9}{2}d} = 13$$

$$a_1 = 11$$

$$a_5 = 30$$

$$d = \frac{30 - 11}{4} = \frac{19}{4}$$

$$tE = 11 + (n-1)E = 30$$

$$30 = 11 + (n-1)E \Rightarrow d = \frac{30 - 11}{n-1} = \frac{19}{n-1}$$

$$d = \frac{-19}{n+1} = -d$$

$$\frac{-19}{n+1} = -d$$

$$n = 4$$

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