

طالع‌بغری

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

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

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

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

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

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

ع جمله هشتم ← ۳۲, ۳۰, ۲۸, ۲۶

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

$$2176 - 1440 = 736$$

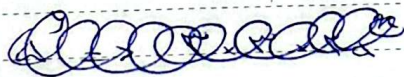
$$d = \frac{t_m - t_n}{m - n}$$

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

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

$$a_n = a^{r_n}, r_n \cdot 10^n, a^y$$

$$a^{r_n} = 2 \cdot 10^n$$



$$d = 2 \times 10^n - 10^n = 1 \times 10^n$$

$$2 \times 10^n + 1 \times 10^n = 3 \times 10^n$$

$$b_n = n, 2n, 3n, \dots$$

$$r_n = r_{n-1}$$

$$r_n = r, n=1$$

$$y = r_n + 1 \rightarrow y = r$$

$$(n-1) = r$$

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

$$d = r_0 - 1 - (r_0 - \varepsilon) \cdot r$$

$$r_0 - 1 + r = r_0$$

$$r_0 + r = r_0$$

$$r_0 + 1 = r_0$$

$$r = 0$$

$$t\varepsilon = -r + (r)r = 0$$

$$a_n = r, d, v, \dots \rightarrow a, (1), r \rightarrow a r_0 = r + (1)r = \varepsilon$$

$$b_n = r, d, \lambda, \dots \rightarrow (1), \varepsilon \rightarrow b r_0 = r + (1)r = \varepsilon$$

$$a_1 = 11 \quad d = r + r = 0$$

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

$$r_0 - a \leq \varepsilon$$

$$r_0 \leq \varepsilon$$

$$r \leq \varepsilon$$

$$b v$$

$$a + ar + ar^2 + \dots = a(1 + r + r^2 + \dots) = a(1 + d - (r + \varepsilon))$$

$$r d = -r\varepsilon \quad d = r\lambda$$

$$a_1 + ar + ar^2 = r a_1 + r d = r_1 \quad a_1 + r\lambda = v \quad a_1 = -r_1$$

$$ar - ar + a_1 = a_1 + r d - r_1 - d + r_1 = a_1 + r d = v$$

$$\frac{v}{a_1} = \frac{v}{-r_1} = -\frac{1}{r}$$

$$a + ar + ar^2 = 10 \rightarrow r a_1 + r d = 10 \rightarrow a_1 + d = a \cdot \frac{r}{r}, r a_1 + r d = 10$$

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

$$r a_1 + r d - r a_1 + r d = a d = 10 \quad d = r$$

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

$$a_0 = r + (9)r = 27$$

$$S_9 = 954$$

$$\frac{a}{r} (a_1 + a_9) = a \times \frac{n}{r} (a_1 + a_n)$$

$$\frac{a}{r} (2a_1 + (9-1)d) = \frac{2V}{r} (2a_1 + (n-1)d)$$

$$2a_1 + 8d = 2V + 2d$$

$$18a_1 = 9d$$

$$2a_1 = d$$

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

$$\frac{a_{20}}{a_5} = \frac{\frac{1}{2}d + 19d}{\frac{1}{2}d + 4d} = \frac{\frac{39}{2}d}{\frac{9}{2}d} = \frac{39}{9} = \frac{13}{3}$$

$$a_1 = 11$$

$$a_5 = 30$$

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

$$T_9 = 11 + (9-1)d = 39$$

$$39, 0, 0, 23 \quad \downarrow \quad d = \frac{23 - 39}{3} = -\frac{16}{3}$$

$$d = \frac{-16 + 23}{3} = \frac{7}{3}$$

$$\frac{-16}{n+1} = -\frac{16}{n+1}$$

$$n = 8$$