

$$S_{\text{مجموعه}} \rightarrow a + a + d + a + r d + a + r d + a + f d = 8a + 10d$$

$$S_{\text{مجموعه}} \rightarrow a + 2d + a + r d + a + r d + a + r d + a + r d = 8a + 3rd$$

$$\frac{8a + 10d}{8a + 3rd} = \frac{1}{3} \Rightarrow 10a + 3rd = 8a + 3rd \Rightarrow 10a = 8d \Rightarrow a = \frac{4}{5}d$$

$$a_1 = \frac{4}{5}d \quad a_r = \frac{1}{5}d \quad \rightarrow \frac{a_r}{a_1} = \frac{\frac{1}{5}d}{\frac{4}{5}d} = \frac{1}{4}$$

$$(t_9^r - t_0^r) = (t_9 - t_0)(t_9 + t_0) = (t_v + r d - t_v + r d)(t_v + r d + t_v - r d) = 4d \times 2t_v$$

$$\rightarrow t_v = t_v - r d + 10 \Rightarrow r d = 10 \Rightarrow d = 5$$

$$\frac{t_9^r - t_0^r}{t_v} = \frac{r t_v \times r_0}{t_v} = f_0$$

$$d = \frac{b-a}{n+1} \rightarrow \frac{r + \sqrt{13} - (r(1 - 4\sqrt{13}))}{12+1} = \frac{13\sqrt{13}}{13} = \sqrt{13}$$

$$d = \frac{b-a}{c+1} \rightarrow \frac{r_r - r}{(r_n - r) + 1} \Rightarrow d = \frac{r_0}{r_n - r} = \frac{10}{r_n - 1}$$

$$a_n = 11 \Rightarrow r + nd = 11 \rightarrow r + n \left(\frac{10}{r_n - 1} \right) = 11$$

$$\Rightarrow \frac{10n}{r_n - 1} = 9 \Rightarrow 10n - 9 = 10n \Rightarrow n = 9$$

$$\rightarrow d = \frac{r_0}{(r_n - r) - r} = \frac{r_0}{9} \quad r_0 = 11 \quad \checkmark$$

$$t_r + t_v = t_n + t_n + f \rightarrow n + n + f = r + 14 \Rightarrow r_n = 14 \Rightarrow n = 1$$

$$\frac{t_1}{t_f} = 3 \rightarrow \frac{t_f + f d}{t_f} = 3 \Rightarrow r t_f = t_f + f d \Rightarrow r t_f = f d \Rightarrow t_f = r d$$

$$\rightarrow t_1 + r d = r d \rightarrow t_1 = -d \rightarrow t_r = -d + d = 0 \rightarrow t_r$$

$$t_1 = 10, \quad t_2 = 91$$

$$r_2 d = r_1 \Rightarrow d = V \Rightarrow t_n = t_1 + (n-1)d \rightarrow t_n = t_0 + (n-1)V \Rightarrow t_n = Vn + 33$$

$$V_{n+1} = r \cdot V_n \Rightarrow V_n = 1 \text{ V} \Rightarrow r = \frac{1 \text{ V}}{V} = r$$

$\vec{r}_{01} \rightarrow$

$a + b = \begin{matrix} 16 \\ 0 \end{matrix}$

$f_{a+b} = 41$

$\frac{a}{b} = \frac{v}{w} \Rightarrow t_n = Vn + w$

لایوی اعداد که تقسیم ۷ باقی می ماند $\Rightarrow a_n = 7n - 4$
 $\rightarrow 3, 10, 17, 24, \dots$

Jabbar $\Rightarrow$

n	10	1f	1w	...	1f ₀	1f _w	1f _f
a _n	44	9f	101	...	9vf	99v	100f

 $\Rightarrow 1f_w - 10 + 1 = 119$

$$\boxed{\text{Jensens}} \Rightarrow 91 \angle V_n - F \angle 100 \rightarrow 102 \angle V_n \angle 100 \rightarrow 145 \angle n \angle 145, 2 \rightarrow 120 \angle n \angle 145 \rightarrow n = 119$$

$a_{n+1} + a_{n+r} + a_{n+r} = -q_{n+r}$

$a_r = r, d = -r$

$\Rightarrow (i) \quad (r) \quad (w) \quad (f) \quad (o) \quad \dots$

$\Rightarrow a_n = -rn + 1$

$a_1 \rightarrow (-r \times 1) + 1 = -1 \Rightarrow a_w + a_1$

$a_{14} \rightarrow (-r \times 14) + 1 = -14 \Rightarrow -14$

$a_r + a_r + a_f = 4$

$= a_r + r + a_f = 4 \Rightarrow a_r + a_f = f$

$a_r + a_f + a_o = 0 \Rightarrow r + a_f + a_o = 0$

$\Rightarrow a_f + a_o = -r$

$\Rightarrow a_r + a_f = f$

$a_o + a_r = -r$

$a_w - a_r = -4 \Rightarrow d = -r$

$$a_r + a_{1r} = r a_n \longrightarrow a_n = \frac{a_r + a_{1r}}{r} = \frac{r^n - 1}{r} + r^n - r^n = \frac{r^n - 1}{r}$$

$$a_{ir} - a_{io} = \Delta = r d \longrightarrow d = \frac{\Delta}{r}$$

$$a_{1r} + a_{1o} = \gamma \omega$$

$$\gamma a_{1\gamma} = w_0$$

$$a_{17} = 12$$

$$a_{10} = 10$$

$$a_{11} = 1d \xrightarrow{\quad} a_n = \frac{d}{r}n - 1d \xrightarrow{n=11} \left(\frac{d}{r} \times 11\right) - 1d = 10d$$