

ت۱ = ۲۰ > t۲ = ۹۱ => d = \frac{91-20}{3} = 23 => t_n = 20 + 23n > t_n = 201 => 23n = 201 - 20 => 23n = 181 => n = 7.87 => n = 8

t_n = v_{n+1} \quad |r = n, \text{ ادين } = v(114) + 3 = 101 \quad \text{آفرين سرفتي} \quad v \times 114 + 3 = 99v \quad n = 114

114 - 114 + 1 = 1

a_n + a_{n+1} = 2a_{n+1} \quad a_{n+1} = -a_n + 1 \Rightarrow a_{n+2} = -a_{n+1} + 1 = a_n \Rightarrow a_n = -a_{n+1} + 1

a_1 = -1 + 1 = 0 \quad a_{11} + a_{12} = -1 - 2 = -3

t_r = r^{2x} - r, t_r = r^x - 1, t_1 = r^{x+1}

\frac{t_r + t_r}{r} = t_1 \Rightarrow \frac{r^{2x} - r + r^x - 1}{r} = \frac{r^{2x} + r^x - r}{r} = r^{x+1} - (r^{2x} - r) + (r^x - 1)/r

1r + 3 + 1 = 1r

a_{11} - a_{10} = 2d = 2 \Rightarrow d = 1/d \quad a_{11} + a_{10} = 2d = 2a_1 + 20 \times (1/d) = 2d \Rightarrow a_1 = -2d \Rightarrow a_1 = -2/d

\Rightarrow a_{11} = a_1 + 10d = -2/d + 10d = 2 \Rightarrow d = 1/2

r^x (a_1 + 10d) = 10a_1 + r^x d \Rightarrow 10a_1 + r^x d = 10a_1 + r^x d \Rightarrow 10a_1 = 10d \Rightarrow d = 10a_1

\frac{a_1 + r^x a_1}{a_1} = \frac{r^x a_1}{a_1} = r^x

\frac{(t_9 + t_4)(t_7 - t_2)}{t_9 + t_4} = r(t_9 - t_2) - 1d = 1 \times 2 = 2

t_n = t_{n-1} + 1 \Rightarrow t_f = t_1 + 1 \Rightarrow \frac{t_f - t_1}{1} = 1 \Rightarrow d = 1

$$d = \frac{r + \sqrt{r^2 - r + 1} \sqrt{r}}{1 \sqrt{r+1}} \approx \frac{1 \sqrt{r} \sqrt{r}}{r}$$

$$a_f = r \quad a_{n+1} \approx 11 \quad a_{f_{n-1}} \approx r^r$$

$$d = \frac{a_{n+1} - a_1}{n+1-1} \approx \frac{11-r}{n} \approx \frac{9}{n}$$

$$d = \frac{a_{f_{n-1}} - a_{n+1}}{f_{n-1} - n - 1} \approx \frac{r^r - 11}{r^{n-r}} \approx \frac{r^r}{r^{n-r}}$$

$$\frac{9}{n} \approx \frac{r^r}{r^{n-r}} \Rightarrow r^{r+n} \approx r^r n \Rightarrow r^n \approx \frac{n}{r^r} \Rightarrow \sqrt[n]{n} \approx \frac{1}{r^r}$$

$$a_{n+1} + a_n + f = a_n + a_r \Rightarrow n+1+n+f = r \Rightarrow n \approx \frac{r}{2} \quad \text{? } a_n \approx r^{\frac{r}{2}} \Rightarrow a_n = r^{\frac{r}{2}}$$

$$2 \gg a_n - a_f = a_{f+f} d - a_f \approx r^f d = r_{af} \Rightarrow \boxed{a_f = 0}$$