

$$\left. \begin{array}{l} t_1 = f_0 \\ t_f = 91 \end{array} \right\} \quad 2d = 21 \Rightarrow d = 10.5$$

$$\hookrightarrow f_0 + (n-1)d \Rightarrow f_0 + 10n - 10 \Rightarrow 10n + 91 = 208$$

$$10n = 117 \Rightarrow n = 11.7$$

$$100 \leq 10n + 91 \leq 999 \Rightarrow 9 \leq n \leq 99 \Rightarrow 141 \dots \leq n \leq 1401 \dots$$

$$14 \leq n \leq 142 \Rightarrow \frac{142-14}{1} + 1 = 129$$

$$\text{If } n=1 \quad \begin{array}{l} 2a_1 + 9d = 9 \Rightarrow a_1 + 4.5d = 4.5 \\ 2a_1 + 9d = 0 \Rightarrow a_1 + 4.5d = 0 \end{array} \Rightarrow d = -1 \quad a_1 = 9$$

$$a_{10} + a_{11} = 2a_1 + 18d = 18 - 18 = 0$$

$$r^{x+1} \times r^1 = r^x(0) - f$$

$$\hookrightarrow r^x \times r^1 = 0 \times r^x - f \Rightarrow r^x = -f \Rightarrow x = 1$$

~~$$r^x \times r^1 = 0 \times r^x - f$$~~

$$r^x - 0 = 12 \quad r^{x+1} = 1 \quad r^1 - 1 = 0 \Rightarrow 1 + 1 + 1 = 3$$

$$t_{15} - t_1 = 2d = 10 \Rightarrow d = 5$$

$$t_1 + t_{15} = 2t_1 + 14d \Rightarrow 2t_1 + 70 = 20 \Rightarrow 2t_1 = -50 \Rightarrow t_1 = -25$$

$$t_{11} = t_1 + 10d = -25 + 50 = 25$$

$$\frac{10(a_1 + a_0)}{r} = \frac{10(a_9 + a_{10})}{r}$$

$$r(r+1+fd) = (r+1+fd) \Rightarrow rt+1+rd = r+1+fd$$

$$\downarrow$$

$$rt+1 = r+1+fd \Rightarrow d = rt$$

$$\frac{tr}{t_1} = \frac{t_1 + rt_1}{t_1} = \textcircled{r}$$

$$t_n = t_{n-1} + 10 \Rightarrow rd = 10 \Rightarrow \textcircled{d=10}$$

$$\frac{(t_9 - t_0)(t_9 + t_0)}{(fd)(rt_1 + fd)} = 10 \Rightarrow \textcircled{f_0}$$

$$r - 10\sqrt{c} \quad \text{---} \quad r + \sqrt{c}$$

$$r - 10\sqrt{c} + 10d = r + \sqrt{c} \Rightarrow 10\sqrt{c} = 10d \Rightarrow \textcircled{d=\sqrt{c}}$$

$$r, \quad \text{---} \quad r$$

$$f_{n-1}$$

$$r + (f_{n-1} - r)d = cr \Rightarrow f_{n-1}d - rd = cr \Rightarrow rd = r \Rightarrow \textcircled{d=r}$$

$$r + nd = 11 \Rightarrow \textcircled{n=9}$$

$$\textcircled{n=9}$$

$$t_c + t_v = t_n + t_{n+1} \Rightarrow r_{n+1} = r \Rightarrow \textcircled{n=10}$$

$$t_n = ct_f \Rightarrow t_1 + vd = ct_1 + qd \Rightarrow rt_1 = -rd$$

$$\downarrow$$

$$t_1 = -d$$

$$\textcircled{\text{حده هم منراست}} = t_r = t_1 + d$$