

$$S_0 = \frac{a_1 + r a_1}{r} = \frac{a_1(1+r)}{r} = a_1 + \frac{r a_1}{r}$$

$$S_1 = S_1 - S_0 = \frac{a_1 + r a_1}{r} - (a_1 + \frac{r a_1}{r}) = a_1 + r a_1$$

$$a_1 + r a_1 = \frac{1}{r}(a_1 + r a_1) \Rightarrow \frac{a_1 + r a_1}{r} = a_1 + r a_1 \Rightarrow 1 a_1 + r a_1 = a_1 + r a_1$$

$$\frac{a_1}{a_1} = \frac{a_1 + r a_1}{a_1} = \frac{1 + r a_1}{1} = r \Rightarrow \frac{a_1}{a_1} = r \Rightarrow a_1 = r a_1$$

$$t_n = t_{n-1} + 1$$

$$\left. \begin{aligned} t_n - t_{n-1} &= 1 \\ t_n - t_{n-1} &= r d \end{aligned} \right\} \begin{aligned} 1 &= r d \\ d &= \frac{1}{r} \end{aligned}$$

$$\begin{aligned} t_q - t_0 &= \frac{(t_q - t_0)(t_q + t_0)}{r d} = \frac{(t_q^2 - t_0^2)}{r d} = r \cdot (r t v) \\ \frac{t_q^2 - t_0^2}{r d} &= \frac{r \cdot (r t v)}{r d} = r \cdot (r t v) \end{aligned}$$

$$\left. \begin{aligned} a_1 &= r(1 - \sqrt{r}) \\ a_n &= r + \sqrt{r} \end{aligned} \right\} d = \frac{r + \sqrt{r} - r + 1 \sqrt{r}}{-1 + 1} = \frac{1 \sqrt{r}}{1 \sqrt{r}} = \sqrt{r}$$

$\hookrightarrow 1, r$

$$\star d = \frac{b-a}{n+1}$$

$$a_1 = r$$

$$a_n = r r \Rightarrow a_{n-1} = r r$$

$$F_n - F_{n-1}$$

$$n \in \mathbb{N} \Rightarrow n+1 \Rightarrow a_{n+1} = 11 \Rightarrow a_1 + n d = 11 \Rightarrow n d = 9 \Rightarrow d = \frac{9}{n}$$

$$\begin{aligned} F_n - F_{n-1} &= \frac{1}{n} - \frac{1}{n-1} = \frac{1}{n(n-1)} \\ a_{n-1} &= r r \Rightarrow a_1 + (n-1)d = r r \Rightarrow (n-1) \frac{9}{n} = r \end{aligned}$$

$$\star a_{n-1}, a_1, \dots, F_n - F_{n-1}$$

$$r_{n-1} = r_0 n$$

$$4n = 18 \Rightarrow n = 3$$

$$a_n + a_{n+d} = a_n + a_{n+1}$$

$$t_m + t_n = t_r + t_s \Rightarrow r + t v = r_0 \Rightarrow n + n d = r_0 \Rightarrow r n = 14 \Rightarrow n = 1$$

$$a_n = r a_{n-1} \Rightarrow a_n = r a_{n-1} \Rightarrow a_n + r d = r a_{n-1} \Rightarrow r d = r a_{n-1} \Rightarrow a_{n-1} = r d$$

$$a_r = a_1 + d = -d + d = 0 \Rightarrow a_r = 0$$

$$-d, 0, d, \dots$$

$$\hookrightarrow a_1 = -d$$

$$S_0 = \frac{\omega}{r} (a_1 + qa) = \frac{10a_1 + r0d}{r} = \frac{\omega}{r} (a_1 + rd), \quad \omega a_1 + 1 \cdot d$$

$$S_1 = S_1 - S_0 = \frac{\omega}{r} (ra_1 + qd) - (\omega a_1 + 1 \cdot d) = \omega a_1 + r0d$$

$$\omega a_1 + 1 \cdot d = \frac{1}{r} (\omega a_1 + r0d) \Rightarrow \frac{\omega a_1 + 1 \cdot d}{\frac{1}{r}} = \omega a_1 + r0d \Rightarrow 10a_1 + r0d = \omega a_1 + r0d$$

$$\frac{a_r}{a_1} = \frac{a_1 + d}{a_1} = \frac{\frac{d}{r} + \frac{rd}{r}}{\frac{d}{r}} = \frac{rd}{d} = r$$

$$10a_1 = \omega d \Rightarrow ra_1 = d \Rightarrow a_1 = \frac{d}{r}$$

$$t_n = t_n - r + 10$$

$$\begin{cases} t_n - t_n - r = 10 \\ t_n - \frac{t_n - r}{r} = rd \end{cases} \begin{cases} 10 = rd \\ d = 0 \end{cases}$$

$$t_q - t_0 = (t_q - t_0)(t_q + t_0) = \left(\frac{r}{r}\right)(r + v) = r \cdot (r + v)$$

$$\frac{t_q - t_0}{-v} = \frac{r \cdot (r + v)}{-v} = f_0$$

$$\begin{cases} a_1 = \frac{r(1 - \sqrt{r})}{r - 1 - \sqrt{r}} \\ a_n = r + \sqrt{r} \end{cases} \quad d = \frac{r + \sqrt{r} - r + 1 - \sqrt{r}}{-1 - 1} = \frac{1 - \sqrt{r}}{-2} = \frac{\sqrt{r}}{2}$$

$k=1, 11$

$$d = \frac{b-a}{n+1}$$

$$a_1 = r$$

$$a_n = r \cdot r \Rightarrow a_{n-1} = r^2$$

$$r_n = r^2$$

$$k=1, n \cdot r = 11 \Rightarrow a_{n+1} = 11$$

$$\frac{a_n}{a_{n-1}} = \frac{r_n}{r_{n-1}} = \frac{r^2}{r} = r$$

$$* a_{n-1} = a_1, \frac{a_n}{a_{n-1}} = r$$

$$d = \frac{a_n - a_1}{n-1} \Rightarrow d = \frac{a_{n+1} - a_1}{n+1-1} = \frac{11-r}{n} = \frac{r}{n}$$

$$d = \frac{a_{n-1} - a_{n+1}}{n-1-n-1} = \frac{r^2 - 11}{r_n - r} = \frac{r}{r_n - r}$$

$$\frac{r}{n} = \frac{r}{r_n - r}$$

$$r_n = r^2 n - 11$$

$$11 = r^2 n \Rightarrow n = \frac{11}{r^2}$$

$$a_n + a_{n+d} = ar + div$$

$$t_m + t_n = t_r + t_s \Rightarrow r + v = r_0 \Rightarrow n + n + d = r \Rightarrow r_n = 11 \Rightarrow n = 11$$

$$a_n = r a_{\frac{n}{r}} \Rightarrow a_n = r a_n \Rightarrow a_{r+d} = r a_r \Rightarrow r d = r a_r \Rightarrow a_r = rd$$

$$a_1 + rd = rd \Rightarrow a_1 = -d$$

$$a_r = a_1 + d = -d + d = 0 \Rightarrow a_r = 0$$

$$-d, 0, d, \dots$$

$$L \quad a_1 = -d$$