

$$a_1 + a_2 + \dots + a_n = \frac{1}{r} (a_1 + a_2 + \dots + a_n)$$

$$t_1 + t_1 + d + t_1 + r_d + t_1 + r_d + t_1 + \varepsilon d = \left(\frac{1}{r}\right) (t_1 + r_d + t_1 + r_d + t_1 + r_d + t_1 + r_d + t_1 + r_d)$$

$$\Delta t_1 + \frac{1}{r} d = \frac{\Delta t_1 + r_d}{r} \rightarrow \Delta t_1 + r_d = \frac{1}{r} \Delta t_1 + \frac{r_d}{r} \rightarrow \Delta d = \frac{1}{r} \Delta t_1 \rightarrow$$

$$t_1 = \frac{1}{r} d \rightarrow t_r = \frac{1}{r} d + d = \frac{r}{r} d \rightarrow \frac{t_r}{t_1} = \frac{\frac{r}{r} d}{\frac{1}{r} d} = \frac{r_d \times r}{d \times 1} = \boxed{r}$$

$$t_n = t_{n-1} + \frac{1}{r} d \rightarrow a_\varepsilon = a_1 + \frac{1}{r} d$$

$$t_9 - t_a = \underbrace{(t_1 - t_a)}_{\varepsilon d} \underbrace{(t_9 + t_a)}_{t_{12} = r t_v} \rightarrow \frac{(t_1 - t_a)(t_9 + t_a)}{t_v} \rightarrow \frac{\varepsilon d \times r t_v}{t_v} = \boxed{r \varepsilon d}$$

$$r(1 - \sqrt{r}), \dots, r \sqrt{r}$$

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

$$r - 1r \sqrt{r}, \dots, r \sqrt{r}$$

$$d = \frac{r \sqrt{r} - (r - 1r \sqrt{r})}{1r} = \frac{r \sqrt{r} - r + 1r \sqrt{r}}{1r} =$$

$$d = \frac{r \sqrt{r}}{r} = \boxed{\sqrt{r}}$$

$$d = \frac{b-a}{n+1} \rightarrow \frac{r_r - r}{\varepsilon n + r} = \frac{r_0}{\varepsilon n - r} = d$$

$$a_{n+1} = a_1 + nd$$

$$11 = r + n \frac{r_0}{\varepsilon n - r}$$

$$9 = \frac{r_0 n}{\varepsilon n - r} \rightarrow r_0 n = r_0 n - 11 \rightarrow 4n = 11 \rightarrow \boxed{n = 3}$$

$$a_n + a_{n+\varepsilon} = a_r + a_{1v} \text{ , } a_n = r a_{\frac{n}{r}}$$

$$a_1 + (n-1)d + a_1 + (n+r)d = a_1 + r_d + a_1 + 1r_d = r a_1 + r_d + r n d = r a_1 + 1n d$$

$$r n d = 1r d \rightarrow n = 1 \rightarrow \frac{n}{r} = \varepsilon \rightarrow a_n = r a_\varepsilon \rightarrow a_n = a_1 + v d \text{ , } a_\varepsilon = a_1 + r_d$$

$$a_1 + v d = r(a_1 + r_d) = a_1 + v d = r a_1 + r_d \rightarrow -r a_1 - r_d = 0 \rightarrow a_1 = -d$$

$$a_m = a_1 + (m-1)d \rightarrow -d + (m-1)d = (m-r)d \rightarrow \boxed{m = r}$$