

$$91 - r_0 = \frac{r_1}{r} = V = d \rightarrow Vn + b = r_0 \rightarrow V + b = r_0 \rightarrow b = r_0 - V$$

$$Vn + b = r_0 \rightarrow Vn + r_0 = r_0 \rightarrow Vn = 1 \rightarrow n = \frac{1}{V}$$

$$Vn + r \rightarrow 1.1, \dots, 99V \rightarrow \frac{99V - 1.1}{V} + 1 = 129$$

$$a_{1V} + a_{11} = a_9 + a_{10} \rightarrow a_9 \rightarrow a_{11} + a_{12} + a_{13} + a_{14} = -4n + 12 \rightarrow -4 + 12 = 8$$

$$\rightarrow a_{10} \rightarrow a_{11} + a_{12} + a_{13} + a_{14} = -4n + 12 \rightarrow -12 + 12 = 0$$

$$-4 + 4 = 0$$

$$\begin{matrix} x & x+1 & x \\ r-1 & r & r \end{matrix}$$

$$\frac{x-1 + x - r}{r} = r \rightarrow x + x - r = r \rightarrow x = r$$

$$\begin{matrix} r & r+1 & r(r) \\ r-1 & r & r \end{matrix}$$

$$r+1-r = r$$

$$r, 1, r \rightarrow r+1+r = 2r$$

$$\begin{aligned} a_{10} + a_{12} &= r_0 \\ a_{11} - a_{10} &= d \end{aligned} \left\} \begin{aligned} \frac{r_0 + d}{r} &= 10, \frac{r_0 - d}{r} = 10 \rightarrow 10 \cdot 10 = \frac{d}{r} = r/d = d \end{aligned} \right.$$

$$r/d + b = 10 \rightarrow r/d + b = 10 \rightarrow b = 10 - r/d$$

$$n = 21 \rightarrow (r/d)(21) - 10 = 0 \rightarrow r/d = 10 \rightarrow \boxed{r/d = 10}$$

$$\frac{\frac{n}{r}(a_1 + a_n)}{\frac{n}{r}(a_1 + a_n)} = \frac{1}{r} \rightarrow \frac{r/d a_1 + r/d a_n}{r/d a_1 + r/d a_n} \rightarrow \frac{r/d a_1 + r/d a_n + 10d}{r/d a_1 + r/d a_n + 10d} = \frac{1}{r}$$

$$\frac{a_1 + 10d}{a_1 + r/d} = \frac{1}{r} \rightarrow \begin{aligned} a_1 + r/d &= 10a_1 + 10d \\ a_1 &= 10a_1 \\ d &= r/d \end{aligned}$$

$$\frac{a+d}{a} = \frac{a+r/d}{a} = \boxed{r/d}$$

$$t_9 = t_9 + 10 \quad t_{10} = t_1 + 10$$

$$-LV = -rR + 10$$

$$r \quad r_9 + 10d \quad r_d$$

$$\frac{(t_9 + 10d)(t_9 - 10d)}{q + 4d} = 10d \rightarrow r_0$$

$$r(1 - 4\sqrt{r}), 1 + \sqrt{r} \rightarrow 1 + \sqrt{r} - (1 - 4\sqrt{r}) = 1 + \sqrt{r} - 1 + 4\sqrt{r} = \frac{5\sqrt{r}}{1r} = \sqrt{r}$$

$$\frac{r_1 - r}{r_{n-1} - r} = \frac{11 - r}{n} \rightarrow r_0 n = r_1 n - 1n$$

$$1n = r_1 n \rightarrow \boxed{n = r_1}$$

$$n = 1 + n + 0 \quad r_0 = 11, r_1 = 11$$

$$\frac{a + vd}{a + rd} = \frac{r}{1} \rightarrow ra + vd = a + rd$$

$$ra = -rd \quad a + d = 0 \rightarrow r \neq d$$

$$a = -d$$

$$ar + av = an + a + \varepsilon \rightarrow an + ar$$

$$1r + r = r_0 \quad n + n + \varepsilon = r_0 \quad rn + \varepsilon = r_0$$

$$rn = 14$$

$$n = 14$$