

$$t_1 = \varepsilon \quad | \quad t_2 = 41 \quad | \quad t_n = 2 \cdot n$$

$$t_2 - t_1 = d \Rightarrow d = 41 - \varepsilon \Rightarrow d = 40$$

$$t_n = V_n + 33$$

$$V_n + 33 = 2 \cdot n \Rightarrow V_n = 178 \Rightarrow \boxed{n = 20}$$

$$9n = V = 18 \Rightarrow 9n + 2 = 10$$

$$10 \nmid V_n + 2 (99V) \Rightarrow 9n \nmid 99V (99E)$$

$$12 \nmid n (12E)$$

$$\Rightarrow 12E - 12 = 12n$$

$$2an + d = -4n + 12 \Rightarrow \begin{matrix} a = -2 \\ d = 4 \end{matrix} \Rightarrow t_n = -2n + 4$$

$$t_n = a_n + d \Rightarrow a_{n+1} + a_{n+2} + a_{n+3} = 3a_n + d$$

$$\left. \begin{array}{l} a_{10} \cdot (-2 \times 10) + 4 = -32 \\ a_n \cdot (-2 \times n) + 4 = -12 \end{array} \right\} \Rightarrow a_{10} + a_n = -32 - 12 = -44$$

$$\left. \begin{array}{l} t_n = a_n + d = r^{\frac{n-1}{2}} \\ t_n = a_n + d = r^{\frac{n-1}{2}} \end{array} \right\} \Rightarrow t_n + t_{13} = t_1 + t_n \Rightarrow r t_n = r (r^{\frac{n-1}{2}}) = r^{\frac{n+1}{2}}$$

$$t_{13} = a_{13} + d = r^{\frac{13-1}{2}} = r^6$$

$$r^{n-1} + r^{13} - r^6 - r^{\frac{n-1}{2}} \Rightarrow r^{\frac{n-1}{2}} + r^{\frac{n-1}{2}} - 2r^{\frac{n-1}{2}} \Rightarrow r^{\frac{n-1}{2}} + r^{\frac{n-1}{2}} - r^{\frac{n-1}{2}} = r^{\frac{n-1}{2}}$$

$$r^{\frac{n-1}{2}} (r^{\frac{n-1}{2}} - 1) = \varepsilon \Rightarrow r^{\frac{n-1}{2}} = \varepsilon \Rightarrow 2, 2$$

$$a_{13} - a_1 = d = 0 \Rightarrow d = \frac{0}{2}$$

$$a_{13} + a_1 = 2a + d = 40 \Rightarrow a = \frac{40}{2}$$

$$a_{13} = a + 12d = \frac{40}{2}$$

$$\left. \begin{aligned} S_1 &= d \frac{a_1 + a_1}{r} = d(a_1 + vd) \\ S_r &= d \frac{a_r + a_{r-1}}{r} = d(a_{r-1} + vd) \end{aligned} \right\} \begin{aligned} S_1 &= \frac{1}{r} S_r \Rightarrow d(a_1 + vd) = \frac{d}{r}(a_{r-1} + vd) \\ ra_1 + rd &= a_{r-1} + vd \Rightarrow ra_1 = d \end{aligned}$$

$$\frac{a_r}{a_1} = \frac{ra_1}{a_1} = r \quad a_r = a_1 + d = ra_1$$

$$\left. \begin{aligned} t_n = t_{n-r} + 10 &\Rightarrow t_n - t_{n-r} = rd + 10 \\ t_E = t_1 + 0 \\ t_E = t_1 + rd \end{aligned} \right\} \Rightarrow d = 0$$

$$(t_1 + 10)(t_9 - t_0) = 10 \dots$$

$$\frac{rt_1 + rd}{v} \quad t_v = t_1 + rd \text{ and } \Rightarrow \frac{10 \dots}{rd} = 10 \dots$$

$$t_1 = ? \Rightarrow t_0 = 10 \Rightarrow t_r = t_1 + rd \Rightarrow t_1 = 0$$

$$t_1 = r(1 - \sqrt{r}) = r - 12\sqrt{r}$$

$$t_E = r + \sqrt{r}$$

$$t_E = t_1 + rd - r + \sqrt{r} = r - 12\sqrt{r} = r - rd = 12\sqrt{r} \Rightarrow d = \sqrt{r}$$

$$d = \frac{b-a}{(En-r)+1} = \frac{r-r}{En-r} = \frac{r}{En-r} \left\{ \begin{aligned} t_1 &= r, E_n = r, t_n = r \end{aligned} \right.$$

$$t_{n+1} = t_1 + nd \Rightarrow nd = 4$$

$$nd = \frac{r \cdot n}{En-r} = 4$$

$$r \quad 11 \quad r \quad r$$

$$r \cdot n = r \cdot n - 11 \quad n = 11$$

$$a_n + a_{n+1} = a_r + a_{r+1} \quad (a + (n-1)d) + (a + nd) = a + rd + a + rd$$

$$(a + nd - d) + (a + nd + rd) = (a + rd) + (a + rd)$$

$$ra + (rn + r)d = ra + rd + (rn + r)d - 1nd$$

$$(n + r) = 11 \Rightarrow r = 11 \Rightarrow n = 1$$