

$$0, 1, 1 \rightarrow t_n = \varepsilon_n + 1$$

$$19, 12$$

سلسلہ

$$\therefore |t_1| = \varepsilon_0 + 1 = \boxed{1}$$

$$t_n = 1 + \varepsilon(n-1)$$

$$S_{1..} = \frac{1}{r} (1 + \varepsilon \times 9) = 10\varepsilon$$

$$b) t_{1n} = 1 + 14n = 10\varepsilon \quad S = \frac{\varepsilon}{r} (10\varepsilon + \varepsilon \times 9) = \boxed{10\varepsilon^2}$$

$$t_{19} + t_{17} + t_{11} + t_{13} = 1(19 + 17 + 11 + 13) = 50$$

$$t_n = 1 + \sqrt{r}, r, r - \sqrt{r} \quad t_{18} - t_{14} = t_1 + r d - t_1 - r d = r d$$

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

$$a_n = \omega^{1n}, r r d^n, \omega^y \rightarrow r \omega^{1n} - \omega^{1n} = \omega^y - r \omega^{1n}$$

$$\omega^{1n} (r-1) = r \omega^{1n} = \omega^y - r \omega^{1n} \rightarrow \omega^y = \omega^{1n} + 1$$

$$b_n = x, r, y \rightarrow r - n = 4 - r \rightarrow n + r = 4 \rightarrow y = 4 - n$$

$$n y = ? \rightarrow 41$$

$$r n + 1 = 4 - n = r_n = r_{n=1} \quad r = 4$$

$$r_n = 4, r_{n-1}, y_n$$

$$4n + r_2 r_1 = 4 = 6_2$$

$$\varepsilon_{n+1} = r \quad \varepsilon_n = r \quad n = 1$$

$$a_n = r, \delta, u \rightarrow a_n = r n + 1 \rightarrow C_n = 4n + 1 \rightarrow 4n(-1) = \delta$$

$$b_n = r, \delta, p \rightarrow b_n = r n - 1$$

$$a_r = \varepsilon 1$$

$$4n - 1 \leq \varepsilon 1$$

$$b_r = \delta 9$$

$$4n \leq \varepsilon 1$$

$$\boxed{0 \leq 4} \rightarrow 0$$

$$a_1 + a_2 + a_3 = 11 \quad a_2 - a_1 = 1.8 - 1.1 = 0.7, \quad \frac{1.2}{r} = \ln d \quad (1)$$

$$a_1 + a_2 + a_3 = 1.8 \rightarrow 3a_1 + 3d = 1.8 \rightarrow 3a_1 = 1.8 - 3d \rightarrow a_1 = 0.6 - d$$

$$\frac{a_1 + a_2 + a_3}{3} = \frac{a_1 + (a_1 + d) + (a_1 + 2d)}{3} = \frac{a_1}{1} = \frac{1}{3} \quad \checkmark$$

$$S_3 = 15 \rightarrow \frac{3}{2}(2a_1 + 2d) = 15 \rightarrow 2a_1 + 2d = 10 \quad \left. \begin{array}{l} 5d = 25 \\ d = 3 \\ a_1 = 2 \end{array} \right\} \quad (2)$$

$$a_4 + a_5 = 25 \quad \frac{2}{2}(2a_4 + d) = 25 \rightarrow 2a_1 + 7d = 25$$

$$a_{10} = 2 + \frac{9 \cdot 3}{27} = \boxed{29}$$

$$S_9 = 9S_3$$

$$\frac{9}{2}(2a_1 + 8d) = 9 \times \frac{3}{2}(2a_1 + 2d) \quad (3)$$

$$\frac{a_2}{a_7} = \frac{1}{2}$$

$$2a_1 + 8d = 6a_1 + 6d$$

$$2d = 4a_1 \rightarrow d = 2a_1$$

$$\frac{a_1 + 19d}{a_1 + 6d} = \frac{a_1 + 38a_1}{a_1 + 12a_1} = \frac{39a_1}{13a_1} = \boxed{3}$$

$$a_1 = 11$$

$$a_7 = 35$$

$$35 - 11 = \frac{24}{6} \rightarrow d = 4 \rightarrow a_4 = 11 + 3 \times 4 = 23 \quad (4)$$

$$b_1 = 38, \dots, 23$$

$$b_4 = 23 \rightarrow 23 - 38 = \frac{-15}{3} = -5 = d \quad |23 - 38| = 15 = \left| \frac{25}{-5} \right|$$

$$S_{-1} = 4$$