

$$\omega, 9, 13, 17, \dots$$

$$d = f \leadsto t_n = f_{n+1} \quad (\text{الف})$$

$$t_{10} = f(10) + 1 = 51 \quad (\text{ب})$$

4, 10, 16, 1A, ...

$$\frac{10}{r} (\underbrace{4 + r r}_{r \uparrow}) = 2r. \quad (\text{الف})$$

$$t_n = f_n + r$$

$$[t_{10} = f(10) + r = fr]$$

$$t_{rq} + t_{rs} + t_{rw} + t_{wr} = \frac{r}{f} (t_{rq} + t_{wr}) = r \left(\frac{11\lambda + 11\mu}{f} \right) = 9.94$$

$$\left[\begin{array}{l} t_{19} = f(19) + 1 = 118, \\ t_{100} = f(100) + 1 = 150 \end{array} \right]$$

$$1 + \sqrt{13}, 2, 13 - \sqrt{13}$$

$$t_{rs} - t_{rr} = t_{rr} + p_d - t_{rr} = p_d = p(1 - \sqrt{f}) = 2 - 2\sqrt{p}$$

$$d: a_4 - a_1 = 4 - 1 - \sqrt{4} = 1 - \sqrt{4}$$

$$\partial^{r_2}, r_2 \partial^{r_2}, \partial^2 \leadsto \alpha = \partial^{r_2} \times r_2 - \partial^{r_2} = \partial^{r_2} (r_2 - 1) = \partial^{r_2} \times r_2$$

$$d \cdot d^y - v_x d^{yx} = d^{yx} (d^{y-x} - v) = d^{yx} \cdot 1 \rightarrow d^{y-x} - v = 1 \rightarrow d^{y-x} = d$$

$$y - r_n = 1 \leadsto y = r_{n+1} \leftarrow$$

$$x, y \sim d' = y - x = y - 1 \sim f - x = y \sim f - x = 1x + 1 \sim v = 1^v x \Rightarrow x = 1, y = 1^v$$

$$\underline{xy = 1 \times \mu = \mu} \quad \leftarrow$$

$$f_{x-1}, f_{x-2}, \dots$$

$$d = r_{n-1} - (r_n - f) = r$$

$$-F, 0, F$$

$$d = 4x - 2x + 1 = 2x + 1 = 1^0 \leadsto x = \frac{1}{2}$$

$$t_n = 100 - 4 \rightarrow t_f = 100(f) - 4 = \underline{\underline{96}}$$

$$a_n = \omega, \Delta, V, \dots \xrightarrow{d:Y} a_n = \gamma_{n+1}$$

$$b_n = \gamma_2 \omega, \lambda, \dots \rightsquigarrow b_n = \gamma_n - 1$$

$\Rightarrow$ جلات مشترک $5, 11, 17, \dots$
 $\downarrow d=6$
 $4n-1$ جلد عمومی جلات مشترک

$$a_{r_0} = P(r_0) + 1 = K1$$

$$b_{r.} = w(r.) - 1 = 59$$

7 جمله مستند در 10 جمله $n \leq 7 \Rightarrow 4n - 1 \leq 27$
اول دنباله های a_n و b_n

$$a_1 + a_r + a_p = P1 \leadsto a_r - d + a_r + a_r + d = P1 \leadsto 3a_r = P1 \Rightarrow a_r = V$$

$$a_1 + a_r + a_d = 1.0 \Delta \leadsto a_r - r_d + a_r + a_r + r_d = 1.0 \Delta \leadsto r_a r = 1.0 \Delta \Rightarrow a_r = r_d$$

$$a_1 + a_r + a_w = P_1 \rightsquigarrow a_1 + V + P_2 = P_1 \rightsquigarrow a_1 = (-P_1)$$

$$\frac{a_w - a_v + a_1}{a_1} = \frac{w_d - v - \pi}{-\pi} = \frac{v}{-\pi} = \frac{-1}{w}$$

$$a_1 + ar + ar = 10 \leadsto ar - d + ar + ar + d = 10 \leadsto 3ar = 10 \leadsto ar = \frac{10}{3}$$

$$ar + ad = 10 \leadsto ar + rd + ar + rd = 10 \leadsto 2ar + 2d = 10 \leadsto 10 + 2d = 10 \leadsto d = 0$$

$$an = 10 - 1 \leadsto a_1 = 10 - 1 = 9$$

$$S_4 = a_1 + ar + ar = ar - d + ar + ar + d = 3ar$$

$$S_4 = a_1 + ar + ar + \dots + an + aq = a_1 - d + a_2 - rd + \dots + a_4 + rd + a_4 + rd = 4a_1$$

$$S_4 = 4S_4 \leadsto 4a_1 = 4 \times 3ar \leadsto a_1 = 3ar \leadsto ar + rd = 3ar \leadsto rd = 2ar \leadsto d = \frac{2}{3}ar$$

$$\frac{ar}{ar} = \frac{ar + 1d}{ar + 2d} = \frac{ar + 1d}{ar + \frac{2}{3}d} = \frac{1 \frac{2}{3}ar}{\frac{1}{3}ar} = 2$$

$$a_1 = 11, ar = 10 \leadsto ar - a_1 = a_1 + 4d_0 - a_1 = 10 \leadsto 4d_0 = 10 \Rightarrow d_0 = \frac{5}{2} \Rightarrow an = 11 + \frac{5}{2}(n-1)$$

$$t_1 = 10, tr = 10 \leadsto tr - t_1 = t_1 + rd_t - t_1 = (-10) \leadsto rd_t = (-10) \Rightarrow d_t = (-10)$$

$$d = \frac{tm - tn}{t - m - n} \leadsto -10 = \frac{10 - 10}{m - 1} \leadsto -10 = \frac{-10}{m - 1} \leadsto m - 1 = 1 \leadsto m = 2$$

$$ar, ar, ar, ad \quad \text{في 10, 10, 10, 10} \quad \leftarrow$$