

① $t_n = 8, 9, 14, 17 \rightarrow t_n = f(n+1)$
 $t_1 = f_1 + 1 = f_1$

$$t_n = rn + r \Rightarrow t_1 = r$$

$f_{x\wedge} = 32 \leftarrow$ $\xrightarrow{\text{افضل محله}} 499 \Rightarrow$

$$\begin{array}{ccc} a_1 & a_r & a_m \\ r_9 \times r + r = 111 & 112 & 119 \\ & a_{rr} \rightarrow 13. & \end{array}$$

$$a_{ra} - a_{rv} = a + r\epsilon d - a - r\epsilon d = r\epsilon d \Rightarrow r(1 - \sqrt{w}) = r - r\sqrt{w}$$

$$\textcircled{F} \quad a_n = a^{rx} \quad r \times \omega^n, \quad \omega^y \Rightarrow r \times a^{rx} = \frac{a^{rx+\omega y}}{r} = r \times a^{rx} = \frac{a^{rx+\omega^{F-x}}}{r} \Rightarrow \frac{a^{rx}(1+\omega^{F-r})}{r}$$

$$b_n = x, y \rightarrow f = x+y \Rightarrow y = f-x \Rightarrow r = \frac{1+\omega^{F-rx}}{r} \Rightarrow y = 1+\omega^{F-rx}$$

$$r = xy \leftarrow y = r \leftarrow \boxed{x=1}$$

$$\textcircled{5} \quad f(x) - f = f(x) - f + 4n \Rightarrow f(x) - f = 1x - f \Rightarrow -f(x) - f \Rightarrow x = \frac{1}{f}$$

$$-f, 0, 3 \Rightarrow 3n - 4 = a_n \Rightarrow a_f = 12 - 4 = 8$$

$$b_n = r, \omega, \lambda \Rightarrow r_{n-1} \rightarrow \omega \lambda$$

$\} G_n = q_n - 1 \Rightarrow q_n - 1 < r \quad q_n < r + 1 \quad \boxed{n < v} \quad \checkmark$ صحیح و درست

$\textcircled{V} \quad a_1 + a_r + a_p = r_1 \Rightarrow r_a + r_d = r_1 \Rightarrow a + d = v$
 $a_1 + a_r + a_d \Rightarrow r_a + r_d = 1 \cdot \omega \Rightarrow a + r_d = r_a$

$$\frac{a_r - a_r + a_1}{a_1} = \frac{a_1 + r d - a - d + a}{-r} = \frac{d + a}{-r} = \frac{v}{-r} = -\frac{1}{r}$$

$$(1) a_1 + a_2 + a_3 = 15 \Rightarrow r^2 a + r^3 d = 15 \Rightarrow a + d = 5$$

$$q_f + q_w = r\omega \rightarrow r_a + 1d = r\omega$$

$$a + 9d = 1 + 18 = \underline{19} \checkmark$$

$$\left. \begin{array}{l} a+d=2 \\ ka+vd=20 \end{array} \right\} \Rightarrow \begin{array}{l} d=1 \\ a=1 \end{array}$$

$$\textcircled{9} \quad S_1 = 1S_r \Rightarrow \frac{1}{r}(ra_1 + (1-r)d) = 1 \times \frac{r}{r}(ra_1 + rd) \Rightarrow -ra = -\omega d$$

$$\frac{a r_o}{a r} = \frac{a + 19d}{a + 4d} \Rightarrow \frac{\frac{a d + 19 d^2}{r}}{\frac{a d + 19 d^2}{r}} = \frac{19 d^2}{1 d} = \left(\frac{19}{1} \right)$$

10) $a_1 = 11$ $a_v = 15 \rightarrow a + 9d \Rightarrow 11 + 9d = 15 \Rightarrow \boxed{d = \frac{4}{9}}$

$$a_r = 14 + v = r\omega \rightsquigarrow a_n = r_n + v$$

$$b_n = r_n + (E-1)d = rr \rightarrow r_n + rd = rr \rightarrow rd = -1a \Rightarrow d = -a$$

$$b_n = -\omega n + f^u$$

$$\Rightarrow -\omega = \frac{3\lambda - 1\mu}{n+1} \Rightarrow -\omega n = 3 \Rightarrow \underline{n=4}$$