

$$a_1 = 15 \quad a_{25} = 91$$

$$d = \frac{a_n - a_1}{n-1} = \frac{91 - 15}{25 - 1} = \frac{76}{24} = \frac{19}{6} = v \quad (n-1)v = 191$$

$$a_n = a_1 + (n-1)d = 15 + (n-1)v = 15 + 19 = 34 \quad n-1 = 24$$

$$n = 25$$

$$100 \leq v_n + 3 \leq 999 \Rightarrow 101 \leq v_n + 3 \leq 997$$

$$98 \leq v_n \leq 994 \quad 15 \leq n \leq 152 \rightarrow 129v$$

$$\frac{994 - 98}{v} + 1 = 129$$

$$a_{n+1} + a_{n+2} + a_{n+3} = -9n + 12$$

$$a_{1v} + a_n = -24 - 1 = -25$$

$$a_v + a_n + a_9 = -9(9) + 12 \quad a_n = -1$$

$$a_{19} + a_{1v} + a_{11} = -9(15) + 12 \quad a_{1v} = -24$$

$$a_{1v} = r^x - r$$

$$a_n = r^{x+1}$$

$$a_v = r^x - 1$$

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

$$r^x - r + r^x - 1 = r^{x+2}$$

$$y^2 + y - r = y \times r$$

$$r^x = y$$

$$y^2 - ry - r = 0$$

$$(y-r)(y+1) = 0$$

$$y = r$$

$$r^x = r$$

$$y = -1 \text{ و } 0 \text{ و } 1$$

$$x = 2$$

$$r - r + r - r - 1 = 19 + 1 = 20$$

$$y = -1$$

$$y = 0$$

$$y = 1$$

$$y = 2$$

$$a_{1v} - a_{10} = 10$$

$$a_{1v} = ? = a_{1v} + 9d = 10 + 19d = 34d$$

$$a_{1v} + a_{10} = 20$$

$$r a_{1v} = r_0$$

$$a_{1v} = 10$$

$$d = 10$$

$$a_1 + a_r + a_v + a_n + a_o = \frac{1}{\mu} (a_g + a_v + a_n + a_q + a_{l_0}) \quad \frac{a_v}{a_1} = ?$$

$$a_{w2} = \frac{1}{w} (a_1) \quad a_w = \frac{1}{w} a_1 \quad a + vd = \frac{1}{w} (a + vd)$$

$$a + v d, \frac{1}{v} a + \frac{v}{v} d \quad \frac{v}{v} a = \frac{1}{v} d \quad \boxed{v a_1 = d}$$

$$\frac{a_1}{a_1} \cdot \frac{a_1 + d}{a_1} = \frac{a_1 + r a_1}{a_1} = \frac{r a_1}{a_1} = r \quad \text{Q.E.D.}$$

$$t_n = t_{n-p} + 1 \omega$$

$$t_q = t_y + l\omega$$

$$t_q - t_q = 1\omega \quad d = \omega$$

$$t_9 - t_{\omega} = \nu_d = \nu_9$$

$$\frac{t_q^r - t_\omega^r}{t_v} = \frac{(\overset{r_0}{t_q - t_\omega})(\overset{rt_v}{t_q + t_\omega})}{t_v} = \underline{r_0}$$

② ✓

$$Y(1 - 4\sqrt{N}) \underbrace{\hspace{2cm}}_{\text{law 1, 1Y}} Y + \sqrt{N}$$

$$d = \frac{x + \sqrt{x} - x + 14\sqrt{x}}{14} = \sqrt{x}$$

① ✓

γ new/2 μ n-w μ μ

$$\omega n, 4n - 1$$

$n = 10$

$$d = \frac{r_0 r - r}{r_n - r + 1} = \frac{r_0}{r(r_n - 1)} = \frac{1}{r_n - 1}$$

$$a_{n+1} = a_1 + n d_2 r + \frac{n(n-1)}{2} \frac{\omega}{r(n-1)} = 11$$

② ✓

$$a_n + a_{n+r} = a_r + a_{1n}$$

$$r_n + r_2 r_0 \quad r_n = 19 \quad \boxed{n = 1}$$

$$\frac{a_1}{a_f} \quad \text{vs} \quad \frac{a_1 + v_d}{a_1 + v_d}$$

$$a_1 + (n-1)d = 9$$

$$a_1 + (n-1) - a_1 = 0$$

$$\frac{a_n}{a_{\frac{n}{p}}} = \mu \quad \boxed{\text{جمله دوم برابر می‌باشد}}$$

$$-r_{a_1} = r_d \boxed{-a_1 = d}$$

$$a_1 + v d_2 \quad r a_1 + q d$$

$$a, (r-h)_{20}$$

$$Y_{a_1} - n_{a_1, 20}$$

$$n = 4$$

$$a_{120} = d_{20} \bar{v} \bar{v} \bar{v}$$

کادر (ب) ل ۵ بیت، جمله هفتم ۳۲ بیت، جمله ۸ و ۱۰ بیت