

$$d = \frac{t_m - t_n}{m + n} \Rightarrow \frac{21}{25} = \frac{v}{100} \quad | a = 4$$

$$r_0 + v(n-1) \Rightarrow 4 + vn - v = 20 \Rightarrow n = 25$$

$$\{1.1, \dots, 99.9\}$$

$$d = 2$$

$$1.1 \leftarrow \text{اولین عدد}$$

$$99.9 \leftarrow \text{آخرین عدد}$$

$$n = \frac{t_m - t_n}{d} + 1 = \frac{99.9 - 1.1}{2} + 1 = 49$$

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

$$\div 3 \Rightarrow a_{n+2} = -3n + 4 \Rightarrow a_1 + 2d = -2 + 4 \Rightarrow d = 1$$

$$a_n = a_1 + (n-1)d \Rightarrow 0 + (n-1) = -2 \Rightarrow n = -1 \Rightarrow a_{-1} = 0$$

$$a_{10} = a_{-1} + 11d \Rightarrow 0 + 11 = -2 \Rightarrow d = -1$$

$$2^m - 2 - 2^{n+1} \Rightarrow 2^{m+1} - 2^{n+1} = 2 \Rightarrow 2^m = 2^{n+2} - 2 \Rightarrow 2^m = 2^{n+2} - 2$$

$$\Rightarrow n = 2$$

$$2^2 - 2 + 2 + 2 - 1 = 4$$

$$2d = 20$$

$$d = 10$$

$$t_{x_1} = a + (x-1)d = 100$$

$$2a + (x-1)d = 200 \Rightarrow 2a = 200 - (x-1)10$$

$$\gamma(\omega a + 1 \cdot d) = \omega a + \gamma \omega d \quad \rightarrow \quad 1 \cdot a = \omega d = d = \omega$$

$$\frac{a + \gamma a}{a} = \omega$$

$$t_n = t_n - \gamma d + 1 \cdot \omega - \gamma d + 1 \cdot \omega = 0 \Rightarrow d = \omega$$

$$-, \frac{(t_a - t_\omega)(t_a + t_\omega)}{t_v} = \frac{\gamma a + 1 \cdot d}{a + \gamma d} = \frac{2\gamma a + 1}{a + \omega} = \gamma$$

$$d = \frac{t_m - t_n}{n+1} = \frac{\gamma + \sqrt{\mu} - \gamma + 1 \cdot \sqrt{\mu}}{1 \cdot \mu} = \sqrt{\mu}$$

$$d = \frac{\gamma}{\gamma n - \gamma}$$

$$a_{n+1} = 1 = \gamma + n d = 1$$

$$n = \mu$$

$$\Rightarrow n d = \frac{1 \omega}{\gamma n - \gamma} = \gamma \Rightarrow 1 \omega n = 1 \gamma n - \gamma$$

$$\gamma a + (\gamma n + \gamma) d = \gamma a + 1 \cdot d \Rightarrow \gamma n + \gamma = 1 \quad (n = \mu)$$

$$a + \gamma d = \gamma a + \gamma d \Rightarrow \gamma a + \gamma d = 0 \Rightarrow a + d = 0 \Rightarrow t_\gamma = a + d = 0$$