

$$t_n = r_{n+1} \rightarrow t_0 = r_{10} + 1 = 10 + 1 = 11$$

$$t_n = 2, 9, 12, 17, \dots$$

$$t_n = r_{n+1}$$

$$r_{18} = 12 \rightarrow \text{بین آخرین عددین 12 و 17}$$

$$t_n = 2, 9, 12, 17, \dots$$

$$t_n + t_{n+1} + t_{n+2} + t_{n+3} + t_{n+4} =$$

$$S_n = \frac{n}{r} (r d_1 + (n-1)d)$$

$$t_0 + t_1 + t_2 + t_3 + t_4 = 2 + 9 + 12 + 17 + 22 = 62$$

$$S_0 = \frac{10}{r} (r d_1 + (10-1)d) \rightarrow 2 \times (12 + 17) = 62$$

$$t_0 = t_1 + r d \rightarrow t_0 = 9 + (12 \times 1) \Rightarrow t_0 = 21$$

$$2r_0 \rightarrow 2 \times 12 = 24$$

$$d_1 = 1 + \sqrt{3}$$

$$d_2 = 2$$

$$d_3 = 2 - \sqrt{3}$$

حالت دیگر این است
تفاضل بین عددین

$$d = a_2 - a_1 = a_2 - a_1 = d$$

$$d = a_2 - a_1 = 2 - (1 + \sqrt{3}) = 1 - \sqrt{3}$$

$$a_n = a_1 + (n-1)d \rightarrow a_{10} - a_{11} = (a_1 + 9d) - (a_1 + 10d) = -d$$

$$a_{10} - a_{11} = 2 - (1 - \sqrt{3}) = 1 + \sqrt{3}$$

$$a_n = 2^m, r \times 2^m, \omega^y \rightarrow r \times 2^m = 2 \times 2^m$$

$$a_r - a_1 = a_r - a_1$$

$$r \times 2^m - \omega^y = 2^y - r \times 2^m$$

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

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

$$2 \times 2^m = 2^y$$

$$2^{1+m} = 2^y$$

$$b_n = x, r, y$$

$$b_r - b_1 = b_r - b_1$$

$$r - x = y - r$$

$$r + r = x + y$$

$$x + y = 2r$$

$$\star \rightarrow y = m + 1$$

$$x + y = 2r \rightarrow x + (m + 1) = 2r$$

$$x + 1 = 2r$$

$$m = r$$

$$x = 1$$

$$y = 2$$

$$a_n = r n - r, r n - 1, 2r, \dots$$

$$d = a_r - a_1 \rightarrow d = (r n - 1) - (r n - r)$$

$$d = r$$

$$a_r = r n + r \rightarrow a_r = (r \times \frac{1}{r}) + r = 2$$

$$d = r n - 1 - r n + r \rightarrow d = r$$

$$d = a_r - a_1$$

$$r \times 2 - (r n - 1)$$

$$r \times 2 - r n + 1$$

$$r \times 2 + 1$$

$$r = 2r$$

$$x = \frac{1}{r}$$

$$a_n = 2, 9, 12, 17, \dots \rightarrow t_n = r n + 1$$

$$b_n = 2, 9, 12, 17, \dots \rightarrow t_n = r n - 1$$

$$t_0 = r \times 0 + 1 = 1$$

$$t_0 = r \times 0 - 1 = -1$$

$$r \times 2, 9, 12, 17, \dots$$

$$d = 4 \rightarrow a_n = 4n - 1 \rightarrow n = 5$$

$$2, 9, 12, 17, \dots$$

$$a_5 = 4 \times 5 - 1 = 19$$

$$a_1 + ar + ar^2 = 11$$

$$ar + ar^2 + ar^3 + ar^4 = 10 \rightarrow ar = 1 \rightarrow ar = 1$$

$$\frac{-11}{-11}, \frac{10}{-11}, \frac{10}{-11} \rightarrow ar - ar + a_1 = 10 - 1 - 1 = 8$$

$$a_1 + ar + ar^2 = 10$$

$$ar + ar^2 + ar^3 + ar^4 = 10 \rightarrow ar = 10$$

$$\frac{10}{10} = \frac{10}{10} = \frac{10}{10}$$

$$a_1 + ar + ar^2 = 10$$

$$ar + ar^2 + ar^3 + ar^4 = 10 \rightarrow ar = 10$$

$$\frac{10}{10}, \frac{10}{10}, \frac{10}{10}, \frac{10}{10}$$

$$a_n = a_1 + (n-1)d \rightarrow a_{10} = 10 + (10-1)d$$

$$a_{10} = 10 + 9d$$

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

$$S_n = \frac{n}{2} (a_1 + (n-1)d) \rightarrow \frac{9}{2} (a_1 + 10d) = 9 \times \frac{10}{2} (a_1 + 10d)$$

$$9(a_1 + 10d) = 9 \times \frac{10}{2} (a_1 + 10d)$$

$$11a_1 + 90d = 45a_1 + 450d$$

$$11a_1 = 360d \rightarrow a_1 = \frac{360d}{11}$$

$$a_{10} = \frac{360d}{11} + 90d = \frac{1026d}{11}$$

$$a_{10} = \frac{360d}{11} + 90d = \frac{1026d}{11}$$

$$\frac{a_{10}}{a_{10}} = \frac{1026d}{1026d} = \frac{1026d}{1026d}$$

$$a_1 = 11$$

$$a_n = 11$$

$$n = K+1$$

$$a_n = a_1 + (n-1)d \Rightarrow a_{K+1} = 11$$

$$11 = 11 + (K+1)d \rightarrow (K+1)d = 0$$

$$d = \frac{0}{K+1}$$

$$a_1 = 11 + 1d$$

$$a_1 = 11 \rightarrow 11 + 1d = 11 \rightarrow d = 0$$

$$d = \frac{0}{K+1} = 0 \rightarrow \frac{0}{K+1} = 0 \rightarrow K+1 = 0 \rightarrow K = -1$$

$$a_1 = 11$$

$$a_n = 11$$

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

$$a_n = 11 + (n-1)d = 11$$

$$0d = 0 \rightarrow d = 0$$

$$a_1 = 11 + 1d \rightarrow 11 + 1d = 11$$