

1 4 12 22

$$n^2 + \frac{n(n-1)}{2}$$

1 2 3 4

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

$$t_{10} = \frac{10^2 + 10(10-1)}{2} = 100 + 45 = 145 \text{ گوی}$$

از 0 4 از 1 9 از 3 16 از 4

$$\frac{n(n-1)}{2}$$

0 1 2 3 4 5 6

1 2 3 4 5 6 7 8 9 10 11

شکل 11 ام $n=11$

$$\frac{n(n-1)}{2} = 45$$

$$\frac{n(n-1)}{2} = 10$$

سینه $\rightarrow f_x(n-1) \rightarrow 40$

سپاه $\rightarrow f_{n+1} \rightarrow 45$

$$t_{11} = \frac{f_x(11-1) + f_{11+1}}{2} = \frac{40 + 45}{2} = 42.5$$

سینه $t_{11} = 42.5$

سپاه $t_{11} \rightarrow 42.5$

$a_1 = -\frac{1}{2}$ $a_2 = \frac{1}{2}$ $a_3 = -\frac{1}{2}$ $a_4 = \frac{1}{2}$

بزرگترین $= \frac{1}{2}$ ← جمله دوم

کوچکترین $= -\frac{1}{2}$ ← جمله اول

$$\frac{1}{2} - (-1) = \frac{3}{2}$$

$$b_n = (-3)^n - 7 \times 3 = -27 - 21 = -48$$

$$-48 = -2n + 22$$

$$-70 = -2n$$

$$n = \frac{-70}{-2} = 35$$

$1^4 = 16$

$$t_{10} - t_0 = 12$$

$$t_7 - t_1 = ? \rightarrow Y_0$$

$$a_1 + 9d - (a_1 + 7d) \Rightarrow a_1 - a_1 + 9d - 7d \Rightarrow 2d = 12 \Rightarrow d = 6$$

$$a_1 + 5d - a_1 = a_1 - a_1 + 5d = \boxed{Y_0}$$

$$t_7 = V \rightarrow t_1 = 3 \quad t_7 = 10 \rightarrow t_{n-1}$$

$$t_1 = b_1 \quad t_7 = b_7$$

$$b_7 = 11$$

$$t_7 = t_1 + 6d$$

$$t_7 = t_1 + 6$$

$$t_1 + 6d = 10$$

$$t_1 + 6d = V$$

$$6d = 10 - V \quad d = \frac{10 - V}{6}$$

$$t_7 \rightarrow t_{1+6} = b_1 + 6d$$

$$t_1 = b_1$$

$$d = 1 \quad \boxed{1n - 5}$$

$$t_n = \frac{2}{5}, \frac{4}{5}, \frac{10}{9}, \frac{14}{11}, \dots$$

$$f_{n-2} = \dots$$

$$2n+3 = \dots$$

جملات اول تا 4 که یک از آن ها ...

$$\frac{f_{n-2}}{2n+3} < \frac{3}{2}$$

$$1n - 5 < 4n + 9$$

$$2n < 14 \rightarrow n < 7$$

$$n \rightarrow 6$$

$$\boxed{2 \times 4}$$

$$7 \quad 9 \quad 9 \quad 4 \quad 0$$

$$+3 \quad 0 \quad -3 \quad -4$$

$$2A + 4B \rightarrow -4A + 3VA = \boxed{33}$$

$$ax^2 + bx + c$$

$$A \rightarrow -1A, B \rightarrow 4A$$

$$A+B=7$$

$$9A+3B=9$$

$$3A+B=3$$

$$9A+3B = 9A+3B$$

$$-7 \quad -9 \quad 0 \quad 9 \quad \dots$$

$$+2 \quad +3$$

$$a=1$$

$$c=-4$$

$$d=-1$$

$$x^2 - 13x - 4$$

$$xy = 312$$

$$x^2 = 101 \quad d = \frac{10}{2} = 5$$

$$2n^2 - n - 9 = 2n + 21$$

$$2n + 21$$

$$n^2 = 4n + 27$$

$$n = 9$$