

$$1+0, 4+1, 9+4, 16+9, \dots$$

$$n^2 + \frac{(n-1)n}{2} \rightarrow 100 + \frac{9 \times 10}{2} = 145$$

$$\overbrace{1, 4, 9, \dots}^{+1} \rightarrow \frac{n \times (n-1)}{2} = 90 \rightarrow n(n-1) = 180$$

$$\rightarrow n = 11$$

$$\overbrace{9, 16, \dots}^{+4} \rightarrow kn+1 \rightarrow 4n+1 \rightarrow n=11$$

$$\overbrace{0, 4, 16, \dots}^{+9} \rightarrow kn-k \rightarrow n=11 \rightarrow 110$$

$$\rightarrow 100 + 40 = 140$$

$$\text{کمیترین} = -1 \quad \text{کمیترین} = \frac{(1-1)^2}{2} = \frac{1}{2} \rightarrow \frac{1}{2} + 1 = \frac{3}{2}$$

$$-2V - 21 = -41 \rightarrow 2n + 22 = -41 \rightarrow n = -14$$

$$10a + b - (4a + b) = 12 \rightarrow 6a = 12 \rightarrow a = 2$$

$$4a + b - a - b = 9 \rightarrow 3a = 9 \rightarrow a = 3$$

$$2a + b = 5 \quad 4a + b = 12 \rightarrow 1 = 7 \rightarrow a = 2$$

$$2 \times 2 + b = 5 \rightarrow b = -1$$

$$\frac{1}{2} + \frac{1}{2} = 1 \rightarrow \frac{1}{2} + \frac{1}{2} = 1$$

$$-2V - 2I = -E \rightarrow 2n + 2I = -E \rightarrow n = 1K$$

$$10a + b - (a + b) = 12 \rightarrow 9a = 12 \rightarrow a = \frac{4}{3}$$

$$4a + b - a - b = 7 \rightarrow 3a = 7 \rightarrow a = \frac{7}{3}$$

$$2a + b = 5 \quad 4a + b = 12 \rightarrow 1 = 2a \rightarrow a = \frac{1}{2}$$

$$2a + b = 5 \rightarrow b = -1 \rightarrow 2n - 1 = a_n \rightarrow a_1 = 1 \quad a_2 = 11$$

$$1a - 2 = b_n$$

$$\frac{4a - 2}{2a + 2} = a_n \rightarrow \frac{4a - 2}{2a + 2} < \frac{4}{2} \rightarrow 4a + 4 > 1a - 2$$

$$4a + 4 > a - 2$$

$$4a + 4 > a - 2 \rightarrow 4a + 4 > a - 2$$

Date: / /



4, 9, 9, 9, ... $a=1, d$ $an + Bn = 4$ (9)

$\begin{matrix} 4 & 9 & 9 & 9 & \dots \\ \downarrow & \downarrow & \downarrow & \downarrow \\ +c & +d & +d & +d \end{matrix}$

$c=0$ $-1, d + B = 4 \rightarrow B = 4 - d$

$u_k - 1, d + d \times 4 - d = 4$

$-4, -4, -4, \dots$ $c=4$ $n^r + Bn - 4 = -4$ (10)

$\begin{matrix} -4 & -4 & -4 & \dots \\ \downarrow & \downarrow & \downarrow \\ +c & +c & +c \end{matrix}$

$a=1 \rightarrow 1 + B - 4 = -4 \rightarrow B = -1$

$\rightarrow n^r - n - 4$

1: 24 $f_1 - f_1 = d = d \rightarrow an + f_1 = n^r - n - 4$

$d + b = 24$ $b = 21$ $24 = n^r - 4n \rightarrow n = 9$

$24 \times 9 + 21 = 244$

$24 + 21$

$\begin{matrix} 11 \\ \times 2 \\ \hline 22 \\ \times 2 \\ \hline 44 \end{matrix}$