

$$t_{10} = t_v + 10\lambda \Rightarrow d = 10$$

$$t_{10} - t_v = 10$$

$$t_4 = t_1 + 4\lambda \Rightarrow d \times 10 = 10$$

(5)

$$a_1 = 1$$

$$a_2 = 10$$

$$a_1 = b_1$$

$$a_2 = b_2$$

$$b_n = 1$$

$$b_n = \lambda n - 1$$

$$b + \lambda = 1 \Rightarrow \lambda + n = 1$$

$$\lambda = 1 - n$$

$$a_n + b$$

$$1 + b = 1 + b = 1$$

$$1 + b = 10 = 1 + b = 10$$

$$1 + b = 10 \Rightarrow b = 9$$

$$1 + b = 10 \Rightarrow b = 9$$

$$b_n + \lambda$$

$$1 + \lambda = 1$$

$$1 + \lambda = 10$$

$$\Rightarrow b = 1$$

$$1 - 1 = b_1 \Rightarrow b_1 = 0$$

$$10 - 1 = b_{10} \Rightarrow b_{10} = 9$$

$$\frac{t_n - 1}{t_n + 1} < \frac{1}{2}$$

چند جمله ی کوچکتر از $\frac{1}{2}$

$$\lambda n - 1 < 4n + 9 \Rightarrow \lambda n < 10 \Rightarrow n < 10 \Rightarrow n \leq 9$$

(5)

$$A n^2 + B n$$

$$t_n = -1, 0, 1, 0, 1, 0, \dots$$

$$t_n = 4, 9, 16, 25, \dots$$

$$-1, 0 + B = 1 \Rightarrow b = 1, 0$$

$$a = \frac{1}{2} = -1, 0$$

$$1A + 0B = ?$$

$$1(-1, 0) + 0(1, 0) = 1, 0$$

(5)

$$b_1 = 1$$

$$b_2 = 1, b_3 = b_2 + 1 \Rightarrow d = 1$$

$$b_n = \omega n + 1$$

$$t_n = 1, n^2 - n - 4$$

$$t_n = -4, -1, 0, \dots$$

$$n^2 - n - 4 = \omega n + 1$$

$$n^2 - 4n - 5 = 0$$

$$(n - 5)(n + 1) = 0$$

$$a = 1$$

$$(-) 1 + b + c = -4$$

$$1 + 1b + c = -1$$

$$1 + b = -1 \Rightarrow b = -2$$

$$1 - 1 + c = -4$$

$$c = -4$$

$$b = 1 \Rightarrow 1, -1$$

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

$$11 - 4 - 4 = 44$$

$$\omega \times 9 + 1 = 44$$