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نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۱ کلاس فصل شماره
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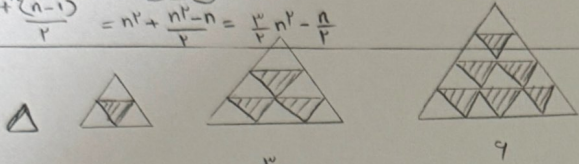
$$+1 \quad +4 \quad +9 \quad +16 \quad +25 \quad +36 \quad +49 \quad +64 \quad +81 \quad +100 \quad \dots$$

$$a_n = \frac{n^2}{2} n^2 - \frac{n}{2}$$

$$\Rightarrow a_{10} = \frac{10^2}{2} \times 10^2 - \frac{10}{2} = 100 \times 100 - 5 = 10000 - 5 = 9995$$

$$\frac{n^2}{2} + b \leq 1 \Rightarrow b \leq -\frac{1}{2}$$

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



$$+0 \quad +1 \quad +4 \quad +9 \quad +16 \quad +25 \quad +36 \quad +49 \quad +64 \quad +81 \quad +100 \quad \dots$$

$$a_n = \frac{n^2}{2} + b n + c = \frac{n^2}{2} - \frac{n}{2} = \frac{n(n-1)}{2}$$

$$\frac{110}{2} = \frac{n(n-1)}{2} \Rightarrow n=11$$

$$a \quad \frac{1}{2} + b = 0$$

$$b = -\frac{1}{2}$$

$$a_n = 1, 4, 9, 16, 25, \dots \rightarrow a_n = n^2 \rightarrow n=11 \rightarrow 11^2 = 121$$

$$a_n = n(n-1) \rightarrow n=11 \rightarrow 11 \times 10 = 110$$

$$a_n = 1, 4, 9, 16, 25, \dots \rightarrow a_n = n^2 \rightarrow n=11 \rightarrow 11^2 = 121$$

$$121 + 18 = 139$$

$$a_n = \frac{(-1)^n}{n} \rightarrow -1, \frac{1}{2}, -\frac{1}{3}, \frac{1}{4}, \dots$$

$$a_n = \frac{1}{n} \rightarrow 1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$$

$$a_n = -1 \rightarrow -1, -1, -1, -1, \dots$$

$$a_n = \frac{1}{n} + 1 \rightarrow 1, \frac{3}{2}, \frac{4}{3}, \frac{5}{4}, \dots$$

$$b_n = (-2)^n - 21 = -25 - 21 = -46$$

$$a_n = -25 + 22$$

$$\Rightarrow -25 + 22 = -3$$

$$n=14$$

$$|a_1 - a_0| = 11$$

$$|10a + b - 0a - b| = 11$$

$$|10a| = 11$$

$$|a| = 11$$

$$|a_1 - a_0| < |10a + b - 0a - b| = 10|a| = 10 \times 11 = 110$$

$$\begin{cases} a_1 = 11 \Rightarrow 10a + b = 11 \\ a_0 = 0 \Rightarrow 10a + b = 0 \end{cases} \Rightarrow 10a = 11 \Rightarrow a = 1.1 \Rightarrow b = -1$$

$$a_n = 11n - 1$$

$$n=1 \Rightarrow 11-1=10$$

$$n=11 \Rightarrow 11 \times 11 - 1 = 121$$

$$b = 11, 11, \dots$$

$$b_n = 11n - 1$$

$$t_n = \frac{11n - 1}{11n + 1}$$

$$\frac{11n - 1}{11n + 1} < \frac{1}{11} \Rightarrow 11n - 1 < 11n + 1$$

$$11n < 12$$

$$n < 1.09 \Rightarrow n = 0, 1, \dots, 9 \Rightarrow 10$$

$$t_n = \frac{11n - 1}{11n + 1} = \frac{11n - 1}{11n + 1}$$

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$$\frac{11n - 1}{11n + 1} = \frac{11n - 1}{11n + 1}$$

$$11A + 11B = -\frac{1}{11} + \frac{11}{11} = \frac{10}{11} = 10 \times \frac{1}{11}$$

$$\begin{cases} a_1 = 11 \Rightarrow 10a + b = 11 \\ a_0 = 0 \Rightarrow 10a + b = 0 \end{cases} \Rightarrow 10a = 11 \Rightarrow a = 1.1 \Rightarrow b = -1$$

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

$$n^2 + bn + c$$

$$1 + b - 4 = -4$$

$$b = -1$$

$$a_n = n^2 - n - 4$$

$$10a + 11 = n^2 - n - 4$$

$$n^2 - 11n - 15 = 0$$

$$(n - 15)(n + 1) = 0$$

$$\begin{cases} n = -1 \rightarrow \text{X} \\ n = 15 \rightarrow \text{check} \end{cases}$$