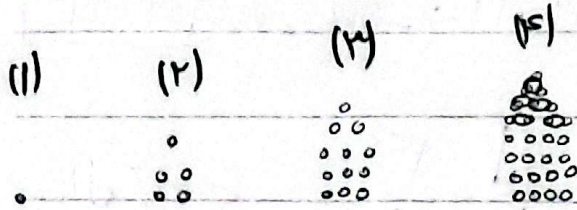


دہر لکھو A تکلیف 11

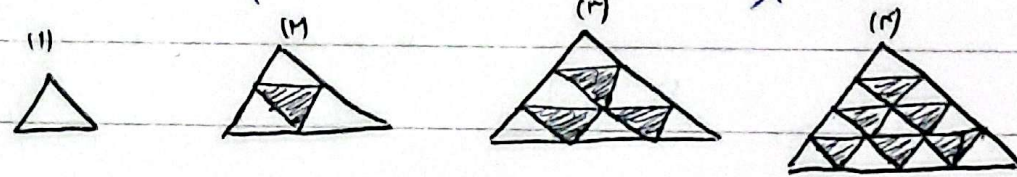
نام خدا

امیر علی میرزا



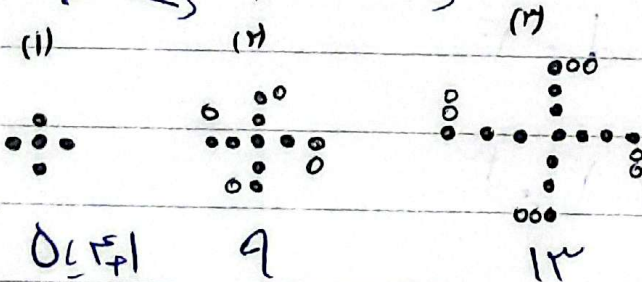
سوال 1

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



سوال 2

$$t_n = \frac{(n-1) \times n}{2} \rightarrow 55 = \frac{n-1 \times n}{2} \rightarrow 110 = n^2 - n \rightarrow n(n-1) = 110$$



سوال 3

$$t_n = 4n + 1 \rightarrow t_{11} = 4 \times 11 + 1 = 45$$

$$a_n = 11n - 3 \rightarrow a_{11} = 11 \times 11 - 3 = 118$$

سوال 4

$$\frac{1}{x} \rightarrow \frac{1}{x} - (-1) = \frac{1}{x} + 1 = \frac{1}{x} + \frac{x}{x} = \frac{1+x}{x}$$

کوثر = $\frac{(-1)^1}{1} = -1$

Subject.

$$b_n = (-r)^n - v_n \rightarrow b_n = (-r)^n - r1 = -r1 \quad \leftarrow \Delta \text{ قال } \checkmark$$

$$a_n = -0n + r2 \rightarrow a_n = -r1 = -0n + r2 \rightarrow -0n = -r0 \rightarrow \boxed{K=1r} \quad \checkmark$$

$$t_{10} - t_v = 1r \rightarrow t_v - t_v + r d = 1r \rightarrow d = r \quad \leftarrow \Delta \text{ قال } \checkmark$$

$$t_0 - t_1 = r \rightarrow (t_v - d) - (t_v - r d) = r \rightarrow t_v - d - t_v + r d = r$$

$$\rightarrow \Delta d = r \rightarrow \boxed{r = \Delta \times r = r0} \quad \checkmark$$

$$\left. \begin{array}{l} a_r = v, a_r = 10 \\ a_1 = b_1, a_r = b_r \end{array} \right\} \begin{array}{l} a_r + r d - a_r = 10 - v \rightarrow r d = 10 - v = 1 \\ \rightarrow d = r \end{array} \quad \leftarrow \Delta \text{ قال } \checkmark$$

$$a_1 = a_r - d = b_1 \rightarrow b_1 = v - r = r \quad \checkmark$$

$$a_r - d = a_r = b_r \rightarrow b_r = 10 - r = 11$$

$$\boxed{b_n \Rightarrow r0, 11, 19, 27, \dots, b_n \rightarrow b_n = 1n - \Delta} \quad \checkmark$$

Subject.

← 1, 1, 1

$$t_n = \frac{r}{d} + \frac{q}{v} + \frac{1}{a} + \frac{1}{11} + \dots$$

$$t_n = \frac{r_n - r}{r_n + r} \rightarrow \frac{r_n - r}{r_n + r} < \frac{r}{r} \rightarrow$$

1, 1, 1

$$11n - r < r_n + r \rightarrow r_n < r \rightarrow n < 1, 0$$

$$n < \frac{r}{r} \rightarrow n < 1, 0$$

$$\rightarrow \boxed{1, 1, 1}$$

1, 1, 1

$$t_n = \frac{r}{d} + \frac{q}{v} + \frac{1}{a} + \frac{1}{11} + \dots \rightarrow r_n - r \rightarrow a_n - 1, 0 = A \leftarrow 1, 1, 1$$

$$t_n = A_n + B_n \rightarrow t_1 = 1, 0 + B = 1 \rightarrow B = 1, 0$$

1, 1, 1

$$rA + dB = ? \rightarrow \underbrace{(r \times 1, 0)}_{-r, 0} + \underbrace{(1 \times 1, 0)}_{r, 1, 0} = \boxed{1, 1, 1}$$

$$t_n = \frac{r}{d} + \frac{q}{v} + \frac{1}{a} + \frac{1}{11} + \dots \rightarrow r_n - r \rightarrow a_n - 1, 0 = A \leftarrow 1, 1, 1$$

$$a_r = r, a_v = r \rightarrow t_n = 1 + b - 1 \rightarrow b = 1 \rightarrow t_n = 1 + b - 1$$

1, 1, 1

$$a_r + r_d - a_v = 1, 0 \rightarrow r_d = 1, 0 \rightarrow d = 0 \rightarrow a_d = r, a_n = 0n + r$$

$$\rightarrow t_n = a_n \rightarrow n^r - n - 1 = 0n + r \rightarrow n^r - n - 1 = 0n + r$$

$$\boxed{n = 1}$$