

Date:

Sub:

۲۰ آذر

$$(1) a+b+c=1 \rightarrow c=1-a-b \quad a^2+bn+c$$

تساویات

تساویات

هم دفتر B

۲

$$2a+2b+c=5 \quad 9a+3b+c=12$$

$$\begin{cases} 3a+b=f \\ 1a+2b=11 \end{cases} \rightarrow 3 \times \frac{3}{2} + b = f \rightarrow b = f - \frac{9}{2} \rightarrow b = \frac{1}{2} - \frac{9}{2} = -\frac{1}{2}$$

$$\rightarrow c=0$$

$$2a=3 \rightarrow a=\frac{3}{2}$$

$$\Rightarrow 1, \Delta n^2 - 0, \Delta n$$

$$1, \Delta \times 100 - (0, \Delta \times 10) = 145$$

$$(2) \text{ کس می باشد؟ } 1, 4, 9, \dots \rightarrow n^2$$

$$\frac{n^2 - n(n+1)}{2} = 55$$

$$\text{مستهای نشسته (سینه)}: 1, 3, 5, \dots \rightarrow \frac{n(n+1)}{2}$$

$$2n^2 - n(n+1) = 110$$

$$2n^2 - n^2 - n$$

$$n(2n-1) \rightarrow n(n-1) = 110$$

$$n=11$$

(3)

$$\text{شبی}: 5, 9, 13, \dots \quad t_n = 4n+1$$

$$\text{سینه}: 0, 4, 8, \dots \quad t_n = 4n-4$$

$$\text{شبی} + \text{سینه} = 4n+1 + 4n-4 = 8n-3$$

$$(4 \times 11) + 1 + (4 \times 11) - 4 + (4 \times 11) + 1$$

$$44 + 40 + 44 = 128$$

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Sub: تالیفات کا درجہ ۱۱
 B - دھرم دتہ

(K)

نہرستیں $n=2 \leftarrow \frac{1}{2}$
 اولیٰ درجہ $n=1 \leftarrow -1$

$$\frac{1}{2} - (-1) = \frac{3}{2} = 1.5$$

(۲)

(Δ)

$$-27 - 21 = -48$$

$$-2k + 22 = -48 \rightarrow 2k = 48 + 22 \rightarrow k = 14$$

(۲)

(۹)

$$t_{10} = t_v + 3d \quad t_v + 3d - t_v = 12 \rightarrow d = 4$$

$$t_v = t_v$$

$$t_4 = t_1 + 2d \quad t_4 - t_1 = t_1 + 20 - t_1 = 20$$

(۲)

(V)

$$t_v = V$$

$$t_8 = 15 \quad t_8 = t_1 + 7d$$

$$t_1 + 7d \quad t_1 + 7d$$

$$\begin{cases} t_1 + 7d = 15 \rightarrow t_1 = 3 \\ t_1 + d = V \end{cases}$$

$$7d = 12 \rightarrow d = 4$$

$$t_n = t_1 + (n-1)d$$

$$t_n = 3 + 4n - 4$$

$$t_n = 4n - 1$$

(۲)

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تساوي

$$t_n = \frac{1}{1}, \frac{4}{4}, \frac{9}{9}, \frac{16}{16}, \dots$$

$$\frac{f(n-1)}{r(n+1)} < \frac{1}{r} \rightarrow 1(n-1) < 4(n+1) \rightarrow 1n < 14 \rightarrow n < 4, 14$$

$$\rightarrow 1 \leq n \leq 4$$

$$4-1+1=4$$

$$t_n = 4, 9, 9, 4, 0, \dots$$

$$t_n = An^2 + Bn \rightarrow c=0 \quad (9)$$

$$2A = -3 \rightarrow A = -\frac{3}{2}$$

$$A + B = 4$$

$$t_n = -1.5n^2 + 11.5n$$

$$3 \times (-1.5) + 11.5 = 3.5$$

$$-1.5 + B = 4 \rightarrow B = 5.5$$

$$an^2 + bn + c$$

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

$$1, -1 \rightarrow c = -4$$

$$a + b + c = -4 \rightarrow c = -4 - a - b$$

(10)

$$+r + r$$

$$2a = 2 \rightarrow a = 1$$

$$fa + 2b - 4 - a - b = -1$$

$$b = -1$$

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

$$t_1 = 1 \rightarrow t_1 + d = 1 \rightarrow t_1 = 14 \quad t_n = 14 + (n-1)d$$

$$t_2 = 4 \rightarrow t_1 + 3d = 4$$

$$t_n = 14 + 3n - 3$$

$$3d = 10 \rightarrow d = 10$$

$$t_n = 3n + 11$$

$$n^2 - n - 4 = 3n + 11 \rightarrow n^2 - 4n - 15$$

$$(n-9)(n+3) = 0$$

$$n = 9$$

$$\rightarrow n = -3$$

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