

Date:

Sub:

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

تساوی‌ها را 11

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هم دفتر B

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

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

$$\rightarrow c=0$$

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

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

$$1, 2 \times 100 - (0, 1, 2 \times 10) = 145$$

$$(2) \text{ کلاس های 1 و 4 و 9 و ... } \rightarrow n^2$$

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

$$\text{کلاس های 1 و 3 و 4 و ... } \rightarrow \frac{n(n+1)}{2}$$

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

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

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

$$n=11$$

(3)

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

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

$$\text{شماره 2: } 0, 4, 8, \dots \quad t_n = 4n-4$$

$$\text{شماره 1 و 2: } t_n = 4n+1 + 4n-4 + 4n+1$$

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

$$44 + 1 + 44 - 4 + 44 = 135$$

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Sub: تالیفات کا درجہ ۱۱
 B - دھرم دھندہ
 تالیفات کا درجہ ۱۱

(K)

نیز ترین $\frac{1}{2} \leftarrow n=2$
 اوسط ترین $-1 \leftarrow n=1$

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

(Δ)

$$-27 - 21 = -48$$

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

(γ)

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

$$t_v = t_v$$

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

(V)

$$t_v = V$$

$$t_f = 15$$

$$t_v = t_1 + 2d$$

$$t_1, t_2, t_3$$

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

$$2d = 12 \rightarrow d = 4$$

$$t_n = t_1 + (n-1)2d$$

$$t_n = 3 + 8n - 8$$

$$t_n = 8n - 5$$

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تسايل

$$t_n = \frac{1}{5}, \frac{4}{9}, \frac{10}{9}, \frac{16}{11}, \dots$$

$$\frac{f_{n-1}}{r_{n+1}} < \frac{1}{r} \rightarrow \frac{f_{n-1}}{r_{n+1}} < \frac{1}{r} \rightarrow \frac{f_{n-1}}{r_{n+1}} < \frac{1}{r} \rightarrow \frac{f_{n-1}}{r_{n+1}} < \frac{1}{r}$$

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

$$4 - 1 + 1 = 4$$

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

$$t_n = An^2 + Bn \rightarrow c = 0$$

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

$$A + B = 4$$

$$t_n = -\frac{1}{2}n^2 + \frac{1}{2}n$$

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

$$-\frac{1}{2} + B = 4 \rightarrow B = \frac{9}{2}$$

$$an^2 + bn + c$$

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

$$c = -4$$

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

$$+r + f$$

$$ra = r \rightarrow a = 1$$

$$fa + rb - 4 - a - b = -f$$

$$ra + b = r \rightarrow b = -1$$

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

$$t_1 = 31 \rightarrow t_1 + d = 31 \rightarrow t_1 = 24 \rightarrow t_n = 24 + (n-1)d$$

$$t_2 = 11 \rightarrow t_2 + d = 11 \rightarrow t_2 = 4 \rightarrow t_n = 4 + (n-2)d$$

$$t_n = 24 + (n-1)d$$

$$rd = 10 \rightarrow d = 10$$

$$t_n = 24 + 10(n-1)$$

$$n^2 - n - 4 = 24 + 10(n-1) \rightarrow n^2 - 11n - 24 = 0$$

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

$$n = 9$$

$$\rightarrow n = -3$$

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