

Yes

تعلیم سہری ۱۴

مازین زحر شنبی

$$a_n = \frac{1}{r}, 1, r, \dots$$

$$a_{11} = \frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial}{\partial r} \right)$$

$$\frac{\frac{1}{F \times P} \times 14}{\frac{1}{F \times P} \times 14} = r^E = \underline{14}$$

(ج) دائرہ نصفیں میں $a_8 = \frac{1}{4} a_1$ $a_1 = \frac{1}{4} a_2$ $a_2 = \frac{1}{4} a_3$ $a_3 = \frac{1}{4} a_4$ $a_4 = \frac{1}{4} a_5$ $a_5 = \frac{1}{4} a_6$ $a_6 = \frac{1}{4} a_7$ $a_7 = \frac{1}{4} a_8$

$$f, \frac{1}{f}, \frac{14}{f}, \frac{32}{f}, \frac{48}{f}, \frac{128}{f}, 256$$

$$n = ? \leftarrow a_n = 1 \text{ km}$$

$$r^{n-1} = r \rightarrow n, q$$

$9 \wedge 2 \rightarrow 9^{\vee}, 94$

$$a_{1,2} = ? \quad \leftarrow \quad a_{11} = 94, \quad a_{22} = 14$$

$$\left(\rightarrow \frac{w}{r} \times \frac{q}{r} = \frac{3 \wedge 2}{r} \right)$$

$\hookrightarrow a_1, a_n, q \rightarrow 94, 15, 5$

الف) $a_3 = ?$

$a_1, a_2, a_3, a_4, a_5 = 1, 2, 3$

$$(a_r)^4 = r \cdot r \rightarrow a_r = r$$

سوال ۴: 2^b ، 2^a و 2^c حتمی، دایره‌های بین a و $b = 2^c$.

نہیں، اسے اخصی بن $a, b =$

$$q_n: av. q^{\ell} \rightarrow n \cdot q^{\ell} = n$$

$$1 - n^r : n^r \rightarrow 1 : r n^r \rightarrow x = 1 : \frac{1}{r} \rightarrow -\frac{1}{r} \frac{v_r}{r}$$

$$x = \frac{\sqrt{r}}{r}$$

$$x = -\frac{\sqrt{r}}{r} \rightarrow q^2 = \frac{-\frac{\sqrt{r}}{r} + 1}{-\frac{\sqrt{r}}{r}} = \frac{-\sqrt{r} + r}{r} + \frac{r}{-\sqrt{r}} = \frac{-\sqrt{r} + r}{-\sqrt{r}} + \frac{(-\sqrt{r} + r)(-\sqrt{r})}{r} = \frac{r - r\sqrt{r}}{r} \rightarrow q^2 = 1 - \sqrt{r} \rightarrow 1 - \sqrt{r} < 0, q^2 > 0 \rightarrow x = -\frac{\sqrt{r}}{r}$$

$$\frac{a_1 + a_2}{a_1 a_2} = \frac{r_1}{r_2} - \frac{a_1 a_2 r}{a_1 + a_2 r} = \frac{r}{1}$$

$$\frac{r - \frac{r(1+q^T)}{1+q}}{\frac{r(1+q)}{1+q}} = \frac{v}{r} \Rightarrow \frac{(1+q)(1-q+q^T)}{q(1+q)} = \frac{v}{r} \Rightarrow r - rq + r q^T = v q$$

مسیر ۲۵۱:

$$\frac{1}{4}a + \frac{1}{9}a = 11$$

$$a\left(\frac{1}{\frac{1}{r} + \frac{1}{q}}\right) = 1r \rightarrow a = \frac{1r \cdot q}{\frac{1}{1}} = r \cdot q \rightarrow \textcircled{rv} \quad q, r,$$

$$3q^2 - 1.9 + 9 = 0 \rightarrow q^2 - 1.9 + 9 = 0$$

$$(q-1)(q-9) = 0$$

$$q = \frac{1}{3}, q = 9$$

$(2) 9 = 3^2 \rightarrow a(1^2) = 1^2 \rightarrow a = 1 \rightarrow 1, 4, 9, (16)$

$$\frac{1}{x} + \frac{2}{x} + \frac{9}{x} = 12$$

$$a^r \cdot q^r = rv \rightarrow a \cdot q = r \rightarrow \underline{\underline{aq = r}}$$

$$124 = 9$$

$$a_1 + a_{n/2}$$

$$\rightarrow a + 9a = 1 \rightarrow 10a = 1 \rightarrow \boxed{a = \frac{1}{10}}$$

1, 4, 9

$$a_1 \cdot a_r \cdot a_r = r v, \quad a_1 + a_r + a_r = 1 r$$

$$a_1 \cdot ar = ar^2 \rightarrow ar = r^2 \rightarrow ar = r^2 \rightarrow a_1 \cdot ar = r^2$$

سوال ۷۷:

$$S_n = a_1 \left(\frac{q^n - 1}{q - 1} \right) \rightarrow r \left(\frac{r^n - 1}{r - 1} \right) = \frac{r^n - 1}{r - 1} \quad (\text{نفس})$$

سوال ۱: $a_n = 2, 4, 12, \dots$ (الف) $S_{10} = ?$

$$P_n = \sqrt[n]{(a_1 \cdot a_n)^n} \Rightarrow P_n = \sqrt[n]{(r \times r \times r)^n} = (r \times r \times r)^1$$

$$P_1 = P_2$$

$$a_{1,2} = \mu \mu^{\dagger} = \mu^2$$

سوال ۹

$$a, aq, aq^2, aq^3, aq^4 \rightarrow aq - a, aq^2 - aq, aq^3 - aq^2, aq^4 - aq^3$$

$$a(q-1), a(q)(q-1), a(q^2)(q-1), a(q^3)(q-1)$$

$$\frac{aq(q-1)}{a(q-1)} = q \text{ - ثابت}$$

$\underbrace{\hspace{10em}}_{\times q} \quad \underbrace{\hspace{10em}}_{\times q} \quad \underbrace{\hspace{10em}}_{\times q}$

سوال ۱۰: (الف) مجموع جملات در تراز حسابی

$$a, a+d, a+2d, \dots, a+(n-1)d$$

$$S_n = a + (a+d) + (a+2d) + \dots + (a+(n-1)d)$$

$$S_n = (a+(n-1)d) + (a+(n-2)d) + \dots + a \xrightarrow{+} rS_n = (ra+(n-1)d) + (ra+(n-2)d) + \dots + (ra+(n-1)d)$$

$$rS_n = n(ra+(n-1)d) \rightarrow \boxed{\frac{n}{r}(ra+(n-1)d) = S_n}$$

(ب) مجموع جملات در تراز هندسی:

$$a, aq, aq^2, \dots, aq^{n-1}$$

$$S_n = a + aq + aq^2 + \dots + aq^{n-1}$$

$$aqS_n = aq + aq^2 + aq^3 + \dots + aq^n$$

$$\xrightarrow{-} qS_n - S_n = aq^n - a$$

$$\rightarrow S_n(q-1) = a(q^n - 1)$$

$$\boxed{S_n = a \left(\frac{q^n - 1}{q - 1} \right)}$$