

19.1V

بسم خدا

$$a_n = \frac{1}{r}(r)^{n-1} = r^{n-1}$$

$$q = r \quad a_1 = \frac{1}{r}$$

$$a_{10} = r^{10-1} = r^9 = \frac{1}{256}$$

$$\Rightarrow \gamma n - r = v \Rightarrow \gamma n = 9$$

$$a_r = \cancel{a_r^r} \times r = r$$

$$\frac{a_{10}}{a_5} = 2^4 = 16$$

$$\frac{a_{1v}}{a_{1r}} = q^r = r^r = \boxed{14} \quad (-)$$

$$q_F = q_f r = \gamma q = \lambda = \gamma_{\text{rel}} = a_f \times \lambda = \lambda_{\text{rel}} = \lambda_f r$$

$$\frac{a_n}{a_n} = \frac{14}{14} = 1 = q^r \Rightarrow q = 1$$

$$a_2 = 1r = a_1 \times q^r = a_1 \times \cancel{14}^r = \cancel{14}^r \Rightarrow a_1 = \frac{14}{r}$$

$$a_{10} = a_1 \times q^{10-1} = \frac{1}{2} \times \cancel{2} \times \cancel{2}^9 = 1 \times 2 \times 2 = \boxed{4}$$

$$a_1 a_r a_r a_r a_d = (a_r)^T \times (a_r)^T \times a_r = a_r a_d = r r^r = r a_r = \boxed{r} \quad \text{و}$$

$$a_1 \times a_\omega = (a_\mu)^T = \mu^T = q \quad (—)$$

$$r^b \times r^a = (\sqrt{r})^r = 14 \times r = r^a \Rightarrow a+b=a$$

$$\frac{a+b}{r} = \frac{a}{r} + \frac{b}{r} = \frac{a}{r} + \overline{r, b}$$

فقہ کا قابل قبول!

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

$$a_r = 1 - n = a_1 q^{r-1}$$

$$av = x = a, q^y$$

$$a_{11} = x+1 = a_1 g_2^{10}$$

$$a_r x_{r+1} = a_v x_v \Rightarrow \frac{a_r}{a_v} (1-x)(x+1) = x^r \Rightarrow 1-x^r = x^r \Rightarrow r x^r = 1 \Rightarrow x^r = \frac{1}{r}$$

$$S_r = a_1 \left(\frac{q^{r+1} - 1}{q - 1} \right)$$

$$\Rightarrow a_1 \left(\frac{\frac{x_0}{x} - 1}{\frac{x_0}{x} - 1} \right) = \frac{x_0}{x}$$

$$\Rightarrow a_1 = 1 \Rightarrow a_F = 1 \times q^{\nu} = 1 \times \mu^{\nu} = \boxed{\nu} \quad \text{---}$$

$$\text{if } q = \frac{1}{\mu} \quad S_E = a_1 \left(\frac{\left(\frac{1}{\mu} \right)^{\frac{1}{\mu}} - 1}{\frac{1}{\mu} - 1} \right) = r_c \Rightarrow a_1 \times \frac{1}{\mu} = r_c$$

$$\Rightarrow a_1 = \frac{r_c \mu}{1 - \mu}$$

$$\Rightarrow a_E = r_c \times \left(\frac{1}{1 - \mu} \right)^{\mu} =$$

$$\frac{a_1 + a_5 = a_1 + a_1 q^4 = r_1}{a_r + a_r = a_1 q + a_1 q^r = r_r} = \frac{r_1}{r_r}$$

$$a_1 + a_2 + a_3 + a_4 = K_0$$

$$1r + 1r_9 r - 1r_9 = r \wedge r_9$$

$$= 7149^{\circ} - f_0 q + 11 = 0$$

$$\Rightarrow r_g r - 1.9 + r = 0$$

$$G'' \Rightarrow q^r - \log q + q = 0$$

$$q = \frac{\mu}{\lambda}, \frac{1}{\mu}$$

$$= \gamma a_E = r_V \times \left(\frac{1}{r}\right) = 1$$

$$xq^{-1} + x + xq = 1^N$$

$$a_1 + a_2 + a_3 = 1^N$$

$$\frac{x}{x} \times \frac{1}{n} \times \frac{1}{n} =$$

~~9~~ $\frac{1}{2}$

$$\Rightarrow \frac{r}{q}, r, r_q \quad \frac{r}{q} + r + r_q = \frac{r_q + r + r_q}{q} = 1r$$

$$\Rightarrow r^2 q^r - 10q^r + r = 0 \Rightarrow q^r - 10q^r + \frac{r}{-q^{r-1}} = 0 \Rightarrow q^r = \frac{q}{r}, \frac{1}{r}$$

ادامہ سوال ✓

$$\left. \begin{aligned} \text{if } q = \frac{1}{r} &\Rightarrow \frac{n}{q}, n, nq \Rightarrow \frac{r}{\frac{1}{r}}, r, r \times \frac{1}{r} \Rightarrow \frac{r}{a_1}, r, \frac{1}{a_r} \\ \text{if } q = r &\Rightarrow \frac{n}{q}, n, nq \Rightarrow \frac{r}{r}, r, r \Rightarrow 1, r, r \end{aligned} \right\} \begin{matrix} a_1, a_r, a_p \\ a_1, a_r, a_p \end{matrix}$$

$$S_{10} = a_1 \left(\frac{q^{10} - 1}{q - 1} \right) = r \times \left(\frac{r^{10} - 1}{\frac{r}{r}} \right) = r^{10} - 1 = (r^5)^2 - 1 = (r^5 + 1)(r^5 - 1) \quad \text{①}$$

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$$P_{10} = a_1^{10} \times (q)^{\frac{n-1 \times n}{r}} = a_1^{10} \times q^{\frac{q \times 10}{r}} = a_1^{10} \times q^{r \times 10} = \boxed{r^{10} \times r^{10}} \quad \text{②}$$

$$\frac{n}{q} \quad \frac{n}{q} \quad n \quad nq \quad nqr \quad nqr^2$$

الف

~~$$\frac{n}{q} - \frac{n}{q} = 0$$~~

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$$nq - nq$$

$$nq - nqr$$

$$nqr - nqr^2$$

$$(nqr - nqr^2)(n - nq) = (nq - nqr^2)r \Rightarrow$$

$$\cancel{n^2 q^2 r} - \cancel{n^2 q^2 r^2} - \cancel{n^2 q^2 r^2} + \cancel{n^2 q^2 r^3} = \cancel{n^2 q^2 r} + \cancel{n^2 q^2 r^2} - \cancel{2n^2 q^2 r^2}$$

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~~$$(nqr - nqr^2)(n - nq) = (nq - nqr^2)r$$~~

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$$q' = \frac{nq - nqr}{n - nq} = \frac{nq(q+1)}{n(1-q)} = \boxed{q}$$

~~$$(nqr - nqr^2)(n - nq) = (nq - nqr^2)r$$~~

③

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$$S_n = a_1 + (a_1 + d) + (a_1 + 2d) + \dots + a_1 + (n-1)d \quad (1)$$

$$S_n = a_1 \times n + (d + 2d + \dots + (n-1)d) \Rightarrow$$

$$d(1 + 2 + 3 + \dots + (n-1))$$

$$S_n = a_1 n + d \frac{(n-1)(n)}{2} \longrightarrow S_n = \frac{n}{2} (2a_1 + d(n-1))$$

$$S_n = a_1 + a_1 q + a_1 q^2 + \dots + a_1 q^{n-1} \quad (2)$$

$$\times q \left(\begin{aligned} q S_n &= a_1 q + a_1 q^2 + a_1 q^3 + \dots + a_1 q^n \end{aligned} \right)$$

$$S_n - q S_n = a_1 - a_1 q^n \Rightarrow S_n (1 - q) = a_1 (1 - q^n) \Rightarrow$$

$$S_n = \frac{a_1 (1 - q^n)}{(1 - q)}$$

$$\Rightarrow S_n = \frac{a_1 (q^n - 1)}{(q - 1)}$$