

گروه: دهم یکشنبه

سری: ۱۵
۱۹/۵
انبار

نام و نام خانوادگی: آناهیتا ترک تهرانی

$$\frac{a}{q} + a + aq = 21 \Rightarrow \frac{r}{q} + r + rq = 21 \Rightarrow \frac{r}{q} + rq = 17 \Rightarrow rq^2 + 17q + r = 0 \Rightarrow$$

$$q^2 - 17q + 19 = 0 \Rightarrow (q-1)(q-19)$$

$$\frac{a}{q} \times a \times aq = 9r \Rightarrow a^3 = 9r \Rightarrow a = r$$

$$q = \frac{1}{r}, q = 19$$

$$x^2 + r, rx, x^2 + r \quad (rx)^2 = (x^2 + r)(x^2 - r) \Rightarrow rx^2 = x^4 + rx^2 + rx^2 - r \Rightarrow$$

$$\textcircled{1} x = r \quad \Lambda, r, r \quad q = \frac{1}{r} \quad rx^2 = x^4 + rx^2 + rx^2 - r \Rightarrow x^4 - rx^2 - r = 0 \quad y = x^2$$

$$\textcircled{2} x = -r \quad \Lambda, -r, r \quad q = \frac{1}{r} \quad x^2 = \frac{r \pm \sqrt{r^2 + 4r}}{2} = \frac{r \pm 4}{2} \Rightarrow y = r, y = -r$$

$$S_n = a \frac{1 - q^n}{1 - q} \Rightarrow \Lambda \times \frac{1 - (\frac{1}{r})^n}{1 - \frac{1}{r}} \Rightarrow S_n = \frac{17r}{\Lambda}$$

$$1 + q + q^2 + q^3 + q^4 = \frac{121}{\Lambda} \Rightarrow \frac{1 - q^5}{1 - q} = \frac{121}{\Lambda} \Rightarrow q = \frac{1}{r}$$

$$S_n = a \frac{1 - q^n}{1 - q} \Rightarrow S_n = r \times \frac{1 - (\frac{1}{r})^5}{1 - \frac{1}{r}} \Rightarrow S_n = \frac{r^5 - 1}{r^4 - r^3} \Rightarrow S_n = r^4 r$$

$$1, \frac{r}{q}, \frac{r}{q}, \left(\frac{\Lambda}{B}\right), \frac{19}{q}, \frac{r}{q}, q^4 \quad q^{k+1} = \frac{b}{a} \Rightarrow q^4 = 9r \Rightarrow q = \pm r$$

$$1, \frac{111\Lambda}{B}, \frac{r}{q}, \left(\frac{321\Lambda}{B}\right), \frac{r}{q}, \frac{121\Lambda}{B}, q^4$$

$$d = \frac{b - a}{n + 1} \Rightarrow \frac{9r}{q} = 101\Lambda$$

$$A + B = 321\Lambda + \Lambda = 401\Lambda$$

$$-r, -\frac{9\Lambda}{r}, \dots \quad d = -\frac{9\Lambda}{r} - (-r) = -\frac{9\Lambda}{r} + \frac{9\Lambda}{r} = \frac{1}{r}$$

$$a_{101} = -r + 100d = 1$$

$$121\Lambda, a_r, \dots$$

$$a_{\Lambda} = 1 \Rightarrow 1 = 121\Lambda \times q^{\Lambda} \Rightarrow q^{\Lambda} = \frac{1}{121\Lambda} \Rightarrow q = \frac{1}{r}$$

$$a_1 + rd, a_1 + qd, a_1 + \lambda d$$

$$(a_1 + qd)^r = (a_1 + rd)(a_1 + \lambda d) \Rightarrow$$

$$\cancel{a_1^r} + \cancel{r\lambda ad} + r\cancel{q}d^r = \cancel{a_1^r} + \underbrace{\lambda ad}_{1 \cdot ad} + r\cancel{a}d + \cancel{r\lambda}d^r \Rightarrow$$

$$rad + r\cancel{0}d^r = 0 \Rightarrow rd(a + 1 \cdot d) = 0 \Rightarrow \boxed{d=0} \quad 9$$

$$a = -1 \cdot d \Rightarrow$$

$$\boxed{\frac{a}{1} = d}$$

$$\underbrace{a_1 + d}_{\frac{1}{r}}, \underbrace{a_1 + rd}_{\frac{1}{r}}, \underbrace{a_1 + \lambda d}_{1}$$

$$q + d = \frac{1}{r}$$

$$ra = \frac{1}{r} \Rightarrow a = \frac{1}{\lambda}$$

$$q = r$$

$$aq^q = \frac{1}{r} \times (r)^q = \frac{1}{r} \times \lambda \times r = \lambda \quad \checkmark$$

$$(a_1 + rd)^r = (a_1 + \lambda d)(a_1 + d) \Rightarrow$$

$$\cancel{a_1^r} + \cancel{r\lambda}d + r\cancel{a}d^r = \cancel{a_1^r} + \underbrace{\lambda ad}_{1 \cdot ad} + \cancel{r\lambda}d + \cancel{r\lambda}d^r$$

$$rd^r - \cancel{r\lambda}d = \lambda ad - \cancel{r\lambda}d \Rightarrow rd^r = rad \Rightarrow$$

$$\cancel{r\lambda}(d) = \cancel{r\lambda}(a) \Rightarrow d = a$$

$$raq, raq^r, aq^r \Rightarrow raq^r = \frac{raq + aq^r}{r} \Rightarrow raq^r = \underbrace{raq + aq^r}_{aq(r+q^r)}$$

$$q(r+q^r) = q(r+q^r) \Rightarrow rq = r + q^r$$

$$q^r - rq + r = 0 \Rightarrow (q-1)(q-r) = 0 \Rightarrow \boxed{q=r}, q=1 \quad \checkmark$$

$$r, \frac{v}{\epsilon}, \dots \quad d = \frac{v}{\epsilon} - \frac{\lambda}{\epsilon} = -\frac{1}{\epsilon} \quad a_r = \frac{\Delta}{\epsilon} \quad a_\lambda = \frac{1}{\epsilon} \quad a_{1r} = -1$$

$$\frac{\Delta}{\epsilon} + k, \frac{1}{\epsilon} + k, -1 + k \quad \left(\frac{1}{\epsilon} + k\right)^r = (-1 + k)\left(\frac{\Delta}{\epsilon} + k\right) \Rightarrow -\frac{\Delta}{\epsilon} - k + k^r + \frac{\Delta}{\epsilon}k = k^r + \frac{1}{\epsilon}k - \frac{\Delta}{\epsilon}$$

$$\cancel{k^r} + \frac{1}{\epsilon}k + \frac{1}{19} = \cancel{k^r} + \frac{1}{\epsilon}k - \frac{\Delta}{\epsilon} \Rightarrow \frac{1}{\epsilon}k = -\frac{r1}{19} \Rightarrow k = -\Delta/r\Delta$$

$$q = \frac{a_r + k}{a_\lambda + k} \Rightarrow \frac{-1 - \frac{r1}{\epsilon}}{\frac{1}{\epsilon} - \frac{r1}{\epsilon}} = \frac{r\Delta}{r\Delta} = \frac{\Delta}{\epsilon} \Rightarrow \boxed{q = \frac{\Delta}{\epsilon}} \quad \checkmark$$

$$G_1 = A_1 \\ G_r = A_r \\ G_v = A_{1r}$$

$$a_1 = a \quad aq^r = a + d \quad aq^q = a + qd$$

$$a_1 + aq^r + aq^q = vr \Rightarrow a(1 + q^r + q^q) = vr \quad (aq^r)^r = a(aq^q) = a^r q^q$$

$$d = aq^r - a$$

$$q(aq^r - a) = aq^q - a \Rightarrow \lambda a = qaq^r - aq^q \Rightarrow \lambda a = qaq^r - aq^q \Rightarrow$$

$$qd = aq^q - a$$

$$\lambda = qaq^r - q^q \Rightarrow \lambda^r - q\lambda + \lambda = 0 \Rightarrow (\lambda-1)(\lambda-1) = 0 \Rightarrow q^r = \lambda \rightarrow q = r$$

$$a_1(1 + \lambda + q\epsilon) = vr \Rightarrow a_1 = 1 \quad a_\epsilon = aq^r = 1 \times \lambda = \lambda \Rightarrow \boxed{d = v} \quad \checkmark$$

$$q^r = 1 \rightarrow q = 1 \quad \checkmark$$

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$$q = 1 \rightarrow {}^3a = v^3 \rightarrow a = \frac{v^3}{r}$$

$$aq^q - a = d \xrightarrow{q=1} \frac{v^3}{r} - \frac{v^3}{r} = 0 \rightarrow d = 0$$