

17

سینا فاطمی

SUN

Year: Month: Day:

Page: ()

$$aq^{-1} \times a \times aq = 4f$$

$$fq^{-1} + f + fq = 21$$

$$\left(\frac{1}{f}\right) - 1$$

$$a^f = 4f \rightarrow a = f$$

$$\frac{f}{q} + fq = 17 \rightarrow \frac{f + fq^2}{q} = 17 \rightarrow f + fq^2 = 17q$$

$$fq^2 - 17q + f = 0 \rightarrow q^2 - 17q + 17 = 0 \quad (q-1)(q-17) = 0$$

$$q = \left(\frac{1}{f}\right) \checkmark$$

$$(x^f + f)(x^f - f) = fx^f \rightarrow x^f + 2x^f - 1 = fx^f$$

$$x^f - 2x^f - 1 = 0 \rightarrow (x^f - f)(x^f + f) = 0$$

$$\underbrace{(x+f)}_{-f} \underbrace{(x-f)}_f (x^f + f) = 0$$

$$SN = \wedge \left(\frac{\left(\frac{1}{f}\right)^f - 1}{\frac{1}{f} - 1} \right) = \left(\frac{-17f}{-f} \right) \checkmark$$

$$x = f \rightarrow \wedge, f, f$$

$$\underbrace{x}_{\frac{1}{f}} \rightarrow q = \frac{1}{f}$$

$$a + aq + aq^2 + aq^3 + aq^4 = a(1 + q + q^2 + q^3 + q^4) = a \left(\frac{121}{11} \right) = 244 \times \frac{121}{11} = 2664 \checkmark$$

$$\frac{4f-1}{\omega+1} = \frac{q^f}{f} = 10, \Delta$$

$$1, \Delta: a_f = a_q + \omega \Delta \rightarrow 1 + 10, \Delta = 10, \Delta \rightarrow \Delta$$

$$q^{n+1} = \frac{b}{a} \rightarrow q^4 = \frac{q^f}{1} \rightarrow q = \pm f$$

$$A+B = 10, \Delta + 1 = 11, \Delta \checkmark$$

$$A+B = 10, \Delta$$

$$a_f = a_1 \times q^f \rightarrow 1 \times 1 = 1 \quad \beta$$

$$q = -f \rightarrow \beta = -1$$

②

$$a_{1,1} = a_1 + 100d \rightarrow -25 + 100 \times \frac{1}{5} = ①$$

۳ هندس: $a_n = 1 \rightarrow a_n = a q^{n-1} \rightarrow 1 = 121 \times q^4 \rightarrow q^4 = \frac{1}{121} \Rightarrow q = \left(\frac{1}{11}\right)$ ✓

$$(a+rd)(a+nd) = (a+rd)^2$$

$$d^x + 10ad + 14d^y = d^x + 14ad + 4d$$

$$-r \, d\theta = r \cdot d\theta^r$$

$$-r_a = r \cdot d$$

$$d = \frac{-a}{T_0} \quad \checkmark$$

$$d = 0$$

چون نفعه جلائے محضہ ۱۱

$$a, aq, aq^2$$

$$\frac{1}{3}, \frac{2}{3}, \frac{9}{3}$$

$$\frac{q}{\epsilon} = \frac{1}{\epsilon} + r d \rightarrow r(-r)$$

$$\frac{q_v}{\epsilon} = \frac{1}{\epsilon} + \gamma d$$

$$\left| \frac{-r q}{\epsilon} = \frac{r}{\epsilon} - 4d \right.$$

$$\frac{dV}{\varepsilon} = \frac{1}{\varepsilon} + \gamma d$$

$$\frac{q^2}{\epsilon} - \frac{w q}{\epsilon} = -\frac{1}{r}$$

$$a) \frac{q^r}{r} - \frac{r q}{r} + \frac{1}{r} = 0 \rightarrow \frac{q^r - r q + 1}{r} = 0 \rightarrow \underbrace{(q-r)}_4 \underbrace{(q-1)}_1 = 0$$

$$q: r \rightarrow q_{1.} = \frac{1}{r} \pi r^2 = q_{1.} = rV = 121 \checkmark$$

SUBJECT:

Year:

Month:

Day:

Page: ()

سینا

$$a, a+d, a+rd$$

$$\begin{matrix} \downarrow & \downarrow & \downarrow \\ raq & raqr & aqr \end{matrix} \rightarrow aqr + raqr = raqr$$

$$aq(q+r) = aq(rq) \rightarrow q+r=rq \rightarrow q+r-rq=0$$

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

(0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)

$$r, \frac{v}{r}, \dots$$

$$d = \frac{v}{r} - r = -\frac{1}{r} \rightarrow ar = \frac{d}{r} \quad a_1 = a_1 + vd \rightarrow r + v(-\frac{1}{r}) = \frac{1}{r}$$

$$a_{1+r} = a_1 + rd \rightarrow r + r(-\frac{1}{r}) = -1$$

$$\frac{d}{r} + n, \frac{1}{r} + n, -1 + n \rightarrow (n + \frac{d}{r})(n-1) = (n + \frac{1}{r})^r$$

$$n^r + \frac{n^r}{r} - \frac{d}{r} = n^r + \frac{n^r}{r} + \frac{1}{14}$$

$$\frac{n^r}{r} + \frac{1}{14} - \frac{n^r}{r} + \frac{d}{r} = 0 \rightarrow \frac{r^2 n - n}{r} + \frac{1+r}{14} = 0 \rightarrow \frac{n}{r} + \frac{r+1}{14} = 0$$

$$\frac{n}{r} = -\frac{r+1}{14} \rightarrow n = -\frac{r(r+1)}{14}$$

$$\frac{d}{r} - \frac{r+1}{14}, \frac{1}{r} - \frac{r+1}{14}, -1 - \frac{r+1}{14} \rightarrow -\frac{1}{r}, -\frac{1}{r}, -\frac{r+1}{14}$$

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

$$a_1 + a_r + a_{1+r} = vr \rightarrow a_1 + a_r + a_{1+r} = vr \rightarrow a + a + d + a + rd = vr$$

$$a_1 \times a_{1+r} = a^r \rightarrow a_1 \times (a_1 + rd) = (a+d)^r$$

$$a + rd = a + d + rad \rightarrow ra = vr - 1 \cdot d$$

$$d^r - vad = 0 \rightarrow d^r - vd(\frac{vr}{r} - \frac{1}{r}d) = 0$$

$$a = \frac{vr}{r} - \frac{1}{r}d$$

دنبانه هندسی: a_n

۵۱

دنبانه حسابی: b_n

$$a_4 - a_1 = b_4 - b_1 = d \rightarrow aq^3 - a = d \quad \star$$

$$a_7 - a_1 = b_7 - b_1 = 6d \rightarrow aq^6 - a = 6d$$

حالت اول $\Rightarrow \frac{aq^3 - 1}{aq^6 - 1} = \frac{1}{6} \rightarrow \frac{1}{q^3 + 1} = \frac{1}{6} \rightarrow q = 2$

$$a_1 + a_1q^3 + a_1q^6 = 7^3 \xrightarrow{q=2} a_1 = 1$$

$\star q^3 - 1 = d \rightarrow \underline{d = 7}$ حالت دوم (دنبانه ثابت) $\rightarrow q = 1 \quad \underline{d = 0}$