

نام و نام خانوادگی^{۱۳} پاسخنماه تشریحی تکلیف شماره ۱۵..... کلاس^{۱۴}

$$a_1 \cdot a_r \cdot a_w = 4^f \rightarrow \frac{a_r}{q} \cdot a_r \cdot a_r q = 4^f \Rightarrow a_r^3 = 4^f \Rightarrow a_r = 4^{\frac{f}{3}}$$

$$a_1 + a_r + a_w = r1 \Rightarrow \frac{a_r}{q} + a_r + a_r q = \frac{a_r + a_r q + a_r q^r}{q} = r1 \Rightarrow r q^r + r q + r = r1 q$$

$$\Rightarrow f q^2 - 14 q + f = 0 \Rightarrow q = \frac{14 \pm \sqrt{196 - 4f}}{2} = f \quad \times$$

$$\frac{14 - \sqrt{4 \times 9 - 4f}}{2} = \left(\frac{1}{f}\right) \checkmark \checkmark \rightarrow \text{غير مناسب}$$

$$n^{r-r} \cdot n^{r+r} \Rightarrow (n^{r-r}) (n^{r+r}) = (nn)^r \Rightarrow n^r + r n^{r-r} - r n^{r-r} - 1 = r n^r$$

$$\Rightarrow \eta^x - \gamma \eta^y - \lambda = 0 \xrightarrow{\eta^y = A} A^x - \gamma A - \lambda = 0 \Rightarrow A = \gamma \Rightarrow \eta = \gamma \quad \eta = -\gamma$$

یعنی $n = \sqrt{-2} \Rightarrow -2$ این سه نوشته معلوم است و $2, 4, \dots$ نزود

$\wedge, \varepsilon, \nu, \dots$

$$v_s = r \cdot \frac{r^v - 1}{r - 1} = r \cdot \frac{1 - (1/r)^v}{1/r} = \frac{1 - (1/r)^v}{1/r}$$

$$S_a = a(1 + q + q^2 + q^3 + q^4) = 243 \times \frac{121}{11} = 243$$

$$d = \frac{q^f - 1}{q + 1} = 10, d \Rightarrow 1, 11, d, 22, 33, d, 44, d, 55 \Rightarrow A = 33, d$$

$$q^4 = \frac{4f}{1} \Rightarrow q = \pm 1 \Rightarrow 1, \pm 2, 4, \pm 1, 14, \pm 32, 48 \Rightarrow B = \pm 1$$

$$\Rightarrow A+B = r_{f, A} + 1 = r_{f, A}$$

$$-Y_f, -\frac{q\omega}{f}, \dots \Rightarrow \frac{1}{f}n - Y_f \frac{1}{f} \Rightarrow a_{1,0} = \frac{1}{f} \stackrel{Y_0}{=} -Y_f \frac{1}{f} = 1$$

$$\Rightarrow 1 = 141 \cdot q^V \Rightarrow q^V = \frac{1}{141} \Rightarrow q = \frac{1}{r} \quad \checkmark$$

$$\left. \begin{aligned} a_v = t_v &= a_w \\ a_v = t_v &= a_v + f d \\ a_q = t_v &= a_v + y d \end{aligned} \right\} \text{substitue} \Rightarrow \begin{aligned} t_v \cdot t_v &= t_v^r \Rightarrow (a_v) \cdot (a_v + y d) = (a_v + f d)^r \\ &\Rightarrow a_v^r + y d a_v = a_v^r + 1 y d^r + 1 a_v y d \\ &\Rightarrow 1 y d^r = -y a_v d \quad d \neq 0 \rightarrow 1 y d = -y a_v \\ &\Rightarrow 1 y d = -y (a_1 + y d) = -y a_1 - y^2 d \Rightarrow 1 y d = -y a_1 \Rightarrow 1 d = -a_1 \Rightarrow d = \frac{-a_1}{1-y} \end{aligned}$$

$a_r = a_1 + d = t_1$
 $a_f = a_1 + rd = t_r$
 $a_n = a_1 + vd = t_v$

$\Rightarrow a_1^2 + 2a_1d + d^2 = a_1^2 + rd(a_1 + d) + d^2$
 $\Rightarrow 2a_1d = rd(a_1 + d)$
 $\Rightarrow 2d = r(a_1 + d)$
 $\Rightarrow 2d = ra_1 + rd$
 $\Rightarrow d = ra_1$
 $\Rightarrow a_r = a_1 + d = ra_1$
 $\Rightarrow a_f = fa_1$
 $\Rightarrow a_n = na_1$

$\Rightarrow t_{10} = t_1 + 9d = \frac{1}{r} + 9r = \frac{1 + 9r^2}{r}$

$t_r = t, q$
 $t_r = t, q^r$
 $t_f = t, q^r$

$\Rightarrow d = d \Rightarrow$

$r t_r - r t_r = t_f - r t_r$
 $r(t, q^r) - r(t, q) = t, q^r - r(t, q^r)$
 $r q - r = q^r - r q \Rightarrow q^r - r q + r = 0$

$\Rightarrow q = 3$

مقربیت

$a_f = a + 3d$ $t_1 = a_f + C = a + 3d + C$ $t_r^x = t_1 \cdot t_p$

$a_v = a + 4d$ $t_r = a_v + C = a + 4d + C$ $\rightarrow -3d(a+C) = 0$

$a_{1r} = a + 12d$ $t_r = a_{1r} + C = a + 12d + C$ $C = -a$ $d = 0$

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$q = \frac{4d}{3d} = \cancel{2} <=$ $t_1 = 3d$ $t_r = 4d$ X (نشان داده شده)

$t_r = 12d$

جواب صفحه بعد ...

$t_1 + t_f + t_v = v r$ $t_1 = a_1$ $\Rightarrow a_r = t_f \Rightarrow d = a(q^r - 1)$ 1, 8
 $t_1 = t_1$ $a_1 = a_1$ $t_f = a_r$
 $t_f = t_1 q^r$ $a_r = a_1 + d$ $t_v = a_r$
 $t_v = t_1 q^4$ $a_0 = a_1 + qd$
 $\Rightarrow d = a(q^r - 1) \rightarrow 0$
 $\rightarrow \textcircled{V} \checkmark$

حالت دوم (بنا به شایستگی) $\rightarrow q_f = 1$ $d = 0$

$$d = \frac{V}{f} - r = -\frac{1}{f}$$

A

$$a_f = r + 3\left(-\frac{1}{f}\right) = \frac{5}{f} \xrightarrow{\text{نه عین ترتیب}} a_1 = \frac{1}{f} \quad a_{13} = -1$$

$$\text{دنباله هندسی} \rightarrow \left(\frac{5}{f} + u\right)(-1 + u) = \left(\frac{1}{f} + u\right)^2 \rightarrow u = -\frac{21}{f}$$

$$\text{جواب: } -f, -5, -\frac{25}{f} \Rightarrow q = \frac{5}{f}$$