

نام و نام خانوادگی درس الی و الی پاسخنامه تشریحی تکلیف شماره ۱۵ ... کلاس ... هم دبیر ...

$$t_1 \cdot t_r \cdot t_\mu = 4K \rightarrow t_r q^- \cdot t_r \cdot t_r q = 7E \rightarrow t_r^\mu = 7E \rightarrow t_r = K$$

$$t_1 + t_r + t_\mu = 21 \rightarrow \frac{K}{q} + K + Kq = 21 \rightarrow K(\frac{1}{q} + 1 + q) = 21 \rightarrow \frac{21}{K} = \frac{1+q+q^r}{q}$$

$$\rightarrow 21q = K + Kq + Kq^r$$

$$= Kq^r - 10q + K \rightarrow (q-1)(q-14) \rightarrow q = \frac{1}{K}$$

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$$Kx^r = (x^r + \varepsilon)(x^r - 1) \rightarrow Kx^r = x^r + 2x^r - 1$$

$$x^r - 2x^r - 1 = 0$$

$$(x^r - 1)^2 - 1 = 0$$

$$(x^r - \varepsilon)(x^r + 1) = 0$$

$$x^r - \varepsilon = 0 \rightarrow x = \pm \sqrt[r]{\varepsilon}$$

$$x = \sqrt[r]{\varepsilon} : 1, \varepsilon, \dots$$

$$x = -\sqrt[r]{\varepsilon} : 1, -\varepsilon, \dots$$

$$a_1 = 1 \cdot q^2 \cdot \frac{1}{K} \rightarrow S_\infty = 1 \left(\frac{1 - (\frac{1}{K})^\infty}{1 - \frac{1}{K}} \right) = \frac{121}{11}$$

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$$1 + q + q^r + q^r + q^r = \frac{121}{11}$$

$$\times a_1 = 2E^r$$

$$a_1 + a_1 q + a_1 q^r + q^r a_1 + a_1 q^r = a_1 + a_r + a_\mu + a_\varepsilon + a_\varepsilon = \frac{121}{11} \times 2E^r = 242$$

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$$d = \frac{b-a}{n+1} \rightarrow \frac{4K-1}{4} = 10, \omega$$

$$1, \dots, \frac{A}{4}, \dots, 4E$$

$$1 \leq 4E$$

$$a_\varepsilon = 1 + 3(10, \omega) = 32, \omega$$

$$q, \dots, \frac{B}{4}, \dots, 7E$$

$$B^r = 7E \rightarrow B = \pm 1$$

$$A + B$$

$$= 32, \omega + 1 = 33, \omega$$

$$1$$

$$= 32, \omega - 1 = 31, \omega$$

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$$\frac{-94}{K}, \frac{-9\omega}{\varepsilon}, \frac{-9E}{\varepsilon}, \dots \rightarrow t_{101} = \frac{-94}{K} + \frac{100}{\varepsilon} = 1$$

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

$$t_n = t_r q^n = 1 \rightarrow q^n = \frac{1}{11n} \rightarrow q = \frac{1}{r}$$

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$$t_v^r = t_p \cdot t_q \rightarrow (t_1 + 4d)^r = (t_1 + rd)(t_1 + nd)$$

$$t_1^r + 4rd^r + 16t_1d = t_1^r + 14d^r + 10dt_1 \rightarrow 4rd^r + 16t_1d = 14d^r + 10dt_1 \rightarrow d(4rd + 16t_1) = d(14d + 10t_1) = 0$$

$$4rd + 16t_1 = 0 \rightarrow d = -\frac{4t_1}{4r} = -\frac{t_1}{r}$$

$$t_k^r = t_p \cdot t_n \rightarrow (t_1 + 3d)^r = (t_1 + d)(t_1 + vd)$$

$$t_1^r + 9d^r + 6t_1d = t_1^r + vd^r + ndt_1 \rightarrow 9d^r + 6t_1d = vd^r + ndt_1 \rightarrow d(9d + 6t_1) = d(vd + nt_1) = 0$$

$$\frac{vd}{d}, \frac{nd}{d}, \frac{vd}{d}$$

$$\rightarrow d = \frac{vd}{nd} = \frac{v}{n}$$

$$t_{10} = \frac{1}{k} \times r^q = r^u = 128$$

$$3t_1q^r, 4t_1q^r, t_1q^r$$

$$4t_1q^r = 3t_1q^r + t_1q^r \rightarrow 4t_1q^r = t_1q^r(3 + q^r)$$

$$4q^r = 3 + q^r$$

$$q^r - 3q^r + 3 = 0 \rightarrow q = \frac{3 \pm \sqrt{14 - 12}}{2} = \frac{3 \pm \sqrt{2}}{2}$$

$$r^q = 128$$

$$\frac{1}{k} \cdot \frac{v}{d} \rightarrow \frac{t_1 + \frac{1}{k} \cdot \frac{v}{d}}{d} = -\frac{1}{d}$$

$$t_1 = \frac{1}{k} - \frac{v}{d} = \frac{1}{k} - \frac{v}{d} = -1$$

$$x + \frac{1}{d}, \frac{1}{d} + x, x - \frac{1}{d}$$

$$\frac{1}{14} + x + \frac{1}{k} = x + \frac{1}{d} - \frac{1}{14}$$

$$\frac{x}{k} = -\frac{1}{14} \rightarrow x = -\frac{1}{14}$$

$$\rightarrow \frac{-14}{d}, \frac{-1}{d}, \frac{-1}{d} \rightarrow q = \frac{-1}{-14} = \frac{1}{14}$$

$$a_1 + a_2q^r + a_3q^r = vr \rightarrow a_2q^r = a + a(q^r - 1) \rightarrow a_2q^r = a + 4a(q^r - 1)$$

$$a_1 + a_2d + a_3d = vr \rightarrow a_2d = 1 + 4d^r - 1$$

$$q^4 - 4q^r + 1 = 0 \rightarrow (q^r - 1)(q^r - 1) = 0$$

$$a = aq^r$$

$$vr = a + aq^r + aq^r$$

$$vr = a(1 + q^r + q^r)$$

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