

نام و نام خانوادگی کلاس شماره تکلیف شماره کلاس پاسخنامه تشریحی

$a_n = \frac{1}{r} \times (r)^{n-1}$
 $a_{10} = a_1 r^9 \rightarrow a_{10} = \frac{1}{r} \times r^9 = r^8 \checkmark$
 $\frac{a_n}{a_{10}} = r^{10-10} \rightarrow r^0 = r^0 = 1 \checkmark$
 $a_{10} = a_1 \rightarrow \frac{1}{r} \times \frac{1}{r} \times r^9 \rightarrow \sqrt{r^{\frac{1}{r} \times \frac{1}{r} \times r^9}} = r^{\frac{1}{r} \times \frac{1}{r} \times r^9} \Rightarrow r^{\frac{1}{r} \times \frac{1}{r} \times r^9} = r^{\frac{1}{r} \times \frac{1}{r} \times r^9} \rightarrow r^{\frac{1}{r} \times \frac{1}{r} \times r^9} = r^{\frac{1}{r} \times \frac{1}{r} \times r^9} \rightarrow n-1 = 1 \rightarrow n=2$
 $\frac{1}{r} \times (r)^{n-1} = 12 \rightarrow r^{n-1} = 12 \rightarrow n-1 = 1 \rightarrow n=2$

$r^{10} = \frac{9}{12} \Rightarrow r^{\frac{10}{12}} = \frac{9}{12} \Rightarrow r = \frac{9}{12}$
 $a_1 \times r^9 = a_{10} \rightarrow a_1 \times \frac{9}{12} = 12 \rightarrow a_1 = \frac{12}{\frac{9}{12}} = \frac{12 \times 12}{9} = 16$
 $a_n = \frac{r}{r} \times (r)^{n-1} \rightarrow a_n = r^{n-1}$
 $a_{10} = \frac{r}{r} \times r^9 = r^9 = 16 \times 16 = 256$

$a_1 \times a_2 \times a_3 \times a_4 \times a_5 = a_{10} = 256 \rightarrow a_{10} = 256 \rightarrow a_{10} = 256$
 $a_1 \times a_{10} = a_2 \times a_9 \rightarrow a_1 \times a_{10} = a_2 \times a_9 \rightarrow a_1 \times a_{10} = a_2 \times a_9$
 $1 \times 256 = 2 \times a_9 \rightarrow a_9 = \frac{256}{2} = 128$

$a_1 \times a_{10} = a_5 \times a_6 \rightarrow \frac{1}{r} \times r^9 = \frac{1}{r} \times r^9 = 1 \times 1 = 1 \rightarrow a_5 \times a_6 = 1 \rightarrow a_5 \times a_6 = 1 \rightarrow a_5 \times a_6 = 1$
 $a_5 \times a_6 = 1 \rightarrow a_5 \times a_6 = 1 \rightarrow a_5 \times a_6 = 1 \rightarrow a_5 \times a_6 = 1$

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

$$a_1 + a_1 r^T = 11 \rightarrow a_1(1+r^T) = 11$$

$$a_1 r + a_1 r^T = 11 \rightarrow a_1 r(1+r) = 11$$

$$\frac{a_1(1+r^T)}{a_1 r(1+r)} = \frac{11}{11} \rightarrow \frac{(1+r^T)}{r(1+r)} = \frac{1}{r}$$

$$1+r^T = 1+r$$

$$r^T = r$$

$$r = \sqrt[3]{1} = 1$$

$$a_1 + a_1 r + a_1 r^2 = 2V \rightarrow a_1 r^2 = 2V \rightarrow a_1 r = 2 \rightarrow a_1 r^2 = 2 \rightarrow a_1 r^2 = 2$$

$$a_1 + a_1 r^2 = 10 \rightarrow a_1(1 + r^2) = 10 \rightarrow a_1(1 + \frac{4}{a_1^2}) = 10 \rightarrow a_1(\frac{a_1^2 + 4}{a_1^2}) = 10$$

$$a_1^2 + 4 = 10a_1 \rightarrow a_1^2 - 10a_1 + 4 = 0$$

$$(a_1 - 1)(a_1 - 9) = 0$$

$$a_1 = 9$$

1, 3, 9, 27, 81, 243, 729, 2187, 6561, 19683, 59049, 177147, 531441, 1594323, 4782969, 14348907, 43046721, 129140163, 387420489, 1162261457, 3486784371, 10460353113, 31381059339, 94143178017, 282429534051, 847288602153, 2541865806459, 7625597419377, 22876792258131, 68630376774393, 205891130323179, 617673390969537, 1853020172908611, 5559060518725833, 16677181556177497, 50031544668532491, 150094633905597473, 450283901716792419, 1350851705150377257, 4052555115451131771, 12157665346353395313, 36472996039059185939, 109418988117177557817, 328256964351532673451, 984770893054597920353, 2954312679163793761059, 8862938037491381283177, 26588814112474143849531, 79766442337422431548593, 239299327012267294645779, 717897981036801883937337, 2153693943108405651811011, 6461081829325216955433033, 19383245487975650866299099, 58149736463926952598897297, 174449209391780857796691891, 523347628175342573390075673, 1570042884526027720170227019, 4710128653578083160510681057, 14130385960734249481532043171, 42391157882202748444596129513, 127173473646608245333788388539, 381520420939824735991365165617, 1144561262819474207974095496851, 3433683788458422623922286490553, 10301051365375267871766859471659, 30903154096125803615290578414977, 92709462288377410845871735244931, 278128386865132232537615205734793, 834385160595396697612845617204379, 2503155481786189092838536851613137, 7509466445358567278515608554839411, 22528399336075701835546825664518233, 67585198008227105506640476993554699, 202755594024681316519921430980664097, 608266782074043949559764292941992291, 1824799346222131848679292878825976873, 5474398038666395546037878636477930619, 16423194115999186638113635909433791857, 49269582347997559914340907728301375571, 147808747043992679743022723184904126713, 443426241131978039229068169554712380139, 1330278723395934117687204508664137140417, 4000835170187802353061613525992411421251, 12002505510563407059184840577977234263753, 36007516531690221177554521733931702791259, 108022549595070663532663565191795108373777, 324067648785211980597990695575385325121331, 972202946355635941793972086726155975364003, 2916608839066907825381916259178467926092009, 8749826517200723476145748777535403778276027, 26249479551602170428437246332606211334828081, 78748438654806511285311738997818634004484243, 23624531596441953385593521699345590201345273, 70873594789325859156780565098036770604035819, 212620784367977577470341695294110311812107457, 637862353103932732411025085882330935436322371, 1913587059311798197233075257646992806308967113, 5740761177935394591699225772940978418926891339, 17222283533806183775097677318822935256780674017, 51666850601418551325293031956468805770342022051, 154990551804255653975879095869406417311026066153, 464971655412766961927637287608219251933078198459, 1394914966238300885782911862824657755799234595377, 4184744898714902657348735588473973267397703786131, 12554234696144707972046206765421919802193111358393, 37662704088434123916138620296265759406579334075179, 112988112265302371748415860888797278219738002225537, 338964336795907115245247582666391834659214006676611, 101689301038772134573574274799917550397764201992983, 305067903116316403720722824399752651193292605978949, 915203709348949211162168473199257953579877817936847, 2745611128046847633486505419597773860739633453810541, 8236833384140542890459516258793321582218900361431623, 2471049915242162867137854877638016474665670108429487, 7413149745726488591413564632914049423996910325288461, 22239449237179465774240693898742148271990730975865383, 66718347711538397322722081696226444815972192927596149, 200155043134615191968166245088679334447916578782788447, 600465129403845575904498735266038003343749736348365341, 1801395388211536727713496205798114009031249208045096023, 5404186164634609183140488617394342027093747624135288069, 16212558493903827549421465852183026081281242872405864207, 4863767548

$$q = r \rightarrow S_{10} = \cancel{r} \left(\frac{r^{10} - 1}{\cancel{r}} \right) = r^{10} - 1 \quad \checkmark$$

$$d_p = \gamma_r (r)^{h-1}$$

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$$\sqrt{(a, a_n)^n} \xrightarrow{x} \sqrt{(r, r, r)^{10}} \rightarrow \rho_a(r, r, r)^{\omega} = r^{10} r^{10} r^{10}$$

$$a_{\gamma} = \gamma_{\alpha}(\gamma)^{\alpha}_{\gamma}$$

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$$a_1 \circ a_1 q \circ a_1 q' \circ a_1 q'' \circ \dots \rightarrow a_1 \circ a_1 q' \circ a_1 q' - a_1 q' \circ a_1 q' - a_1 q'' \circ \dots \rightarrow a_1 (1-q) \circ a_1 q (1-q) \circ a_1 q' (1-q) \circ \dots$$

$$S_n = a_1 + d + d + \dots + d + a_n$$

$$S_n = a_1 + d(n-1) + a_n$$

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$$YS_n = a_n + a_{n-1} + \underbrace{(a_{n-1} + a_{n-2})}_{a_{n-1} + a_{n-2}} + \dots + (a_n + a_1)$$

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

$$S = t_1 + t_1 r + \dots + t_1 r^{n-1}$$

$$S_r = t_1 r + t_2 r^2 + \dots + t_n r^n$$

$$-S = t_1 + t_2 r + t_3 r^2 + \dots + t_n r^{n-1}$$

$$sr - s = t_1 r^n - t_1 \Rightarrow s(r-1) = t_1(r^n-1)$$

$$S_n = t_1 \left(\frac{r^n - 1}{r - 1} \right)$$

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