

نام و نام خانوادگی شماره کلاس پاسخنامه تشریحی تکلیف شماره ۱۲	
$t_n = 0, 9, 13, 17$ $t_n = k_{n+1}$ (الف) $\therefore t_{10} = k_{10} + 2 = 14$	۱
$t_n = 4, 10, 16, 18$ $t_n = 4 + 6(n-1)$ $t_{18} = 112$ $18, 19, 20, 21$ ✓ $t_{18} = 4 + 14 \times 6 = 88$ $S_n = \frac{n}{2} (2t_1 + (n-1)d)$ $S_{10} = \frac{10}{2} (2 \times 4 + 9 \times 6) = 310$ (الف) $S_{18} = \frac{18}{2} (2 \times 4 + 17 \times 6) = 612$ (ب)	۲
$t_n = 1 + \sqrt{3}, 2, 3 - \sqrt{3}$ $+1 - \sqrt{3} \quad +1 - \sqrt{3}$ $t_{10} - t_{13} = t_1 + r \cdot d - t_1 - r \cdot d = r \cdot d$ $r \cdot d = 2 \times (1 - \sqrt{3}) = 2 - 2\sqrt{3}$	۳
$a_n = 2^n, 3 \times 10^n, 5^n \rightarrow 3 \times 10^n - 2^n = 5^n - 3 \times 10^{n-1}$ $3 \times 10^n (1 - \frac{1}{3}) = 5^n - 3 \times 10^{n-1} \rightarrow 5^n = 3 \times 10^{n-1} + 3 \times 10^{n-1} = 6 \times 10^{n-1}$ $b_n = n, 2, 4 \rightarrow 2 - n = 4 - 2 \rightarrow n + 4 = 6 \rightarrow 4 = 6 - n$ $n \cdot y = ? \rightarrow 3 \times 1 = 3$ $r_{n+1} = 8 - n \rightarrow r_2 = 6 \rightarrow n = 1$ $y = 3$	۴
$r_n - 1, r_{n-1}, 4n, \dots$ $+1 \quad +1$ $4n + 1 = 1 + 1 = 2 = t_f$ $t_{n+1} = 1$ $t_n = 1$ $n = \frac{1}{2}$	۵

$$a_n = r^n \delta, V, \dots \rightarrow a_n = r^{n+1} \Rightarrow C_n = 4n + 2 \rightarrow C_1 = 4n - 1 = 0$$

$$a_{r_0} = \epsilon 1$$

$$b_{r_0} = 0^9$$

$$4n - 1 \leq \epsilon 1$$

$$4n \leq \epsilon r$$

$$n \leq V \rightarrow \textcircled{UV}$$

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$$a_1 + a_r + a_p = r1 \quad a_a - a_r = 100 - r1 = 1f \rightarrow \frac{1f}{r} = r1 = d$$

$$a_1 + a_r + a_n = 100 \rightarrow r a_1 + r d = r1 \rightarrow r a_1 = -4r \rightarrow a_1 = -r1$$

$$\frac{a_r - a_r + a_1}{a_1} = \frac{a_1 + r d - a_1 - d + a_1}{a_1} = \frac{a_1 + d}{a_1} = \frac{a_r}{a_1} = \frac{V}{-r1} = \frac{-1}{r}$$

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$$S_r = 10 \rightarrow \frac{r}{p} (r a_1 + r d) = 10 \rightarrow r a_1 + r d = 10$$

$$a_f + a_g = r0 \quad \frac{r}{p} (r a_1 + d) = r0 \rightarrow r a_1 + v d = r0$$

$$\frac{a_1 + r d}{r a_1 + 4 d + d} = \frac{r v}{r}$$

$$a_{10} = r + \frac{r v}{4 \times r} = r9$$

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$$S_9 = 9 S_r \quad \frac{9}{r} (r a_1 + 10 d) = 9 \times \frac{r}{r} (r a_1 + r d)$$

$$\frac{a_{r_0}}{a_v} = ? = 1$$

$$r a_1 + 10 d = 4 a_1 + 4 d$$

$$r d = \epsilon a_1 \rightarrow d = r a_1$$

$$\frac{a_1 + 10 d}{a_1 + 4 d} = \frac{a_1 + 10 r a_1}{a_1 + 4 r a_1} = \frac{r 9 a_1}{r a_1} = r$$

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$$a_1 = 11 \quad r0 - 11 = \frac{r \epsilon}{4} = f = d \Rightarrow a_\epsilon = 11 + \frac{r \epsilon}{4} = r p$$

$$a_v = r a$$

$$b_n = r1, \dots, r1$$

$$b_\epsilon = r p \Rightarrow r p - r1 = \frac{-10}{r} = -d = d \rightarrow |r p - r1| = r0 \rightarrow \frac{r0}{-d} = d - 1 = \frac{1}{r}$$

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