

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۱۴ کلاس دبیرستان

$$a_1 = \kappa_0$$

$$a_K = 41 \rightarrow a_1 + 3d = 41 \rightarrow 3d = 41 - a_1 \Rightarrow 3d = 21 \rightarrow d = 7$$

$$a_n = a_1 + (n-1)d = 10 + (n-1)1 = 10 + n - 1 = 9 + n \rightarrow n = 10$$

9

1

(149)

$$\frac{x \frac{v}{y}}{r} \rightarrow x = vy + r$$

$$100 \leq x < 1000 \rightarrow 100 \leq v_y + 1^w < 1000$$

$$9V \leq V_y < 99V$$

$$1^{\alpha_1}, \dots \leq y < 1^{\alpha_2}, \dots$$

$$y \rightarrow 1^k \bar{i} \ 1^k r \rightarrow 1^k q \bar{i}$$

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$$a_r + a_r + a_r = 7 \rightarrow (a + d) + (a + r d) + (a + r^2 d) = 7 \rightarrow 3a + 3rd = 7 \rightarrow a + rd = r = a_r$$

$$a_r + q_r + a_o = 0 \rightarrow (a + rd) + (a + rd') + (a + rd'') = 0 \rightarrow 3a + 9d = 0 \rightarrow a + 3d = 0 = a_r$$

$$N_{i_1} \Rightarrow \begin{matrix} & k & k & & \\ & \downarrow & \downarrow & & \\ i_1 & \xrightarrow{-r} & i_2 & \xrightarrow{-r} & i_3 & \dots \end{matrix} \rightarrow \dots \rightarrow i_{n+1} \rightarrow k_{n+1}$$

5

7

$$a_N = -5 \times 14 + 10 = -70$$

$$q_1 = -\gamma \lambda + \lambda = -\lambda \rightarrow q_{1\nu} + q_1 = -\gamma \lambda - \lambda = -\lambda \gamma$$

بافتادگی
نسبت $\rightarrow a_{13} - a_n = a_n - a_r \rightarrow r - r - r^{x+1} = r^{x+1} - r^x + 1$

$$r^x + r^x = r^x r^1 + 1 \cdot r^x \rightarrow r^x + r^x = r^{x+1} + r^x \rightarrow r^x (\cancel{r^1} + 1) = r^x (\cancel{r^1} + 1)$$

$$\begin{aligned} r^x = r^y \rightarrow x = y & \left\{ \begin{aligned} a_r &= r^x - 1 = r^y \\ a_\lambda &= r^{x+1} = \lambda \\ a_{1r} &= r^{x+1} - r^x = 1^r \end{aligned} \right. \end{aligned}$$

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$$a_{12} - a_{10} = 2$$

$$a_{12} + a_{10} = 20$$

$$r a_{1r} = v_0 \rightarrow a_{1r} = 1.5$$

$$d_n = -35, -30, -25, -20, -15, -10, -5, 0, 5, 10, 15, \dots$$

$$a_n = a_1 + (n-1)d = -3\Delta + (n-1)\Delta \rightarrow a_{10} = -3\Delta + 9\Delta = 6\Delta$$

~~$$C_{10} = 10 - 9 \cdot 10 = 10 - 10 = 0$$~~

$$\rightarrow a_n - a_{n-1} = \cancel{d} + 11d - \cancel{d} - 9d = 2d = 10 \rightarrow d = 5$$

$$a_{10} + a_{17} = \gamma a_1 + \gamma_0 d = \gamma \omega \rightarrow a_1 = -17\omega$$

$$\alpha r_1 = \alpha_1 + r \cdot d \rightarrow -1 r_1 \omega + r \cdot (r_1 \omega) = r v_1 \omega$$

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$a_1 + ar + ar + ar + ar = \frac{1}{r} (ar + ar + ar + ar + a_1 + a_1)$ $a + a + d + a + d + a + r + r + d + a + r + d = \frac{1}{r} (a + r + d + a + r + d + a + r + d + a + r + d + a + r + d)$ $2a + 10d = \frac{1}{r} (2a + 10d) \rightarrow 10a + 10r + d = 2a + 10d \rightarrow 10a = 10d \rightarrow r = d$ $\frac{a_r}{a_1} = \frac{a+d}{a} = \frac{a+r}{a} = \frac{r+d}{a} = \frac{r}{a} = \frac{r}{r} = 1$	6
$t_{n-r} + 10 = t_1 + (n-1)d \rightarrow 1 = n-r \rightarrow n = r$ $\hookrightarrow \left(\frac{r}{r}\right)d = 10 \rightarrow d = 10$ $t_1 - t_0 = (t_1 - t_0)(t_1 + t_0) = (t_1 + r + t_1 + r) \left(\frac{t_1 + r}{r} - \frac{t_1 - r}{r}\right)$ $\downarrow \quad \downarrow$ $t_1 + 10d \quad t_1 + r$ $= (r t_1 + r) \times r / t_1 = t_1 + r \times \frac{r}{r} \Rightarrow \frac{r t_1 + 10r}{t_1 + r} = \frac{r(t_1 + 10)}{t_1 + r} = \frac{r}{r} = 1$	★ 7
$\frac{1 + \sqrt{17} + 1 + 17\sqrt{17}}{17} = d \rightarrow d = \frac{1 + \sqrt{17}}{17} = \frac{1}{17}$	5 8
$d = \frac{10}{r_{n-1}} \rightarrow r_{n-1}d = 10$ $d = \frac{r_{n-1}}{r_{n-1}} = \frac{10}{r_{n-1}}$ $a_{n+1} = 11$ $a_n = r + (n-1)d = 14$ $a_{n+1} = a_n + d \Rightarrow 15 + \frac{10}{n-1} = 11 \rightarrow \frac{10}{n-1} = -4 \rightarrow \frac{10}{r} = n-1 \rightarrow n = \frac{10}{r} + 1 \Rightarrow n = \frac{10}{r}$	★ 9 10
$a_{10} + a_{14} = a_n + a_{n+r} \rightarrow 10 + 14 = n + n + r \rightarrow r = 2n + 4 \rightarrow n + r = 10 \rightarrow n = 3$ $a_n = r a_{\frac{n}{r}} \rightarrow a_1 = r a_r \rightarrow a_1 + 10d = r a_1 + 10d \rightarrow r a_1 + 10d = 0 \rightarrow a_1 + d = 0$ $\left. \begin{matrix} a_1 + d = 0 \\ a_1 + d = a_r \end{matrix} \right\} a_r = 0$	★ 11