

نام و نام خانوادگی: کلاس: پاسخنامه تشریحی تکلیف شماره ۱۱۱۱۱۱۱۱

$t_1 = \varepsilon_0$ $t_\varepsilon = 41$ $t_n = 20 \wedge$ $41 - \varepsilon_0 = 21 = d$ $21 \times V = 1 \varepsilon V$ $41 + 1 \varepsilon V = 20 \wedge \rightarrow V + \varepsilon = 11 \quad (t_{11})$	۱
$C_n = Vn + 9 \wedge$ $Vn + 9 \wedge \leq 99 \varepsilon$ $Vn \leq 194$ $\frac{100}{V} = 11 \varepsilon, \dots$ $9n = 108, \dots, 144 \varepsilon$ $n \leq 12 \wedge$ $18 \times V = 108 \varepsilon$ $\frac{999}{V} = 144, \dots$ $144 \times V = 999 \varepsilon$ 144ε	۲
$a_r + a_{13} + a_\varepsilon = -4 + 12 = 8$ $13a_1 + 4d = 8$ $a_1 + a_{14} = 13a_1 + 12d$ $= 13(0) + 12(-2) = -24$ $a_{14} - a_{1\varepsilon}$ $a_{14} + a_{14} + a_{10} - a_{14} - a_{10} - a_{1\varepsilon} = a_1 + 14d - a_1 - 12d = 2d$ $\frac{-4(1\varepsilon) + 12}{12} = -V\varepsilon = 2d \rightarrow d = -2\varepsilon$ $13a_1 + 4(-2\varepsilon) = 8 \rightarrow 13a_1 = 16 \varepsilon$ $a_1 = 0$	۳
$a_n = r^n - 1$ $a_1 = r^{n+1}$ $a_{1r} = r^n - 1$ $r^{n+1} - r + 1 = r^n(r-1) + 1 = r^n + 1$ $r^n - r - r^{n+1} = r^n + 1$ $r^n - r - r^{n+1} = r^n + 1$ $-r^n(1+r) + r^n = 1$ $r^n - r^n(1+r) = 1$ $r^n - r^n - r^{n+1} = 1$ $-r^{n+1} = 1$ $r^{n+1} = -1$ $r = \varepsilon \rightarrow n = 2$ $(a-f)(a+1) = 0$	۴
$a_{10} - a_{1r} = \Delta = -14\varepsilon + 12d = 0$ $a_{10} + a_{1r} = 2\Delta = 2a_1 + 20d$ $2a_1 = 20\Delta \rightarrow a_1 = 10\Delta$ $20d = -20 \rightarrow d = -1$ $a_{1r} = a_1 + 20d = 10\Delta - 20 = -10\Delta$	۵

$$S_a = \frac{1}{r} S_{q.b}$$

$$\frac{\omega}{r} (ra_1 + \epsilon d) = \omega a_1 + 10d$$

$$10a_1 + 100d = \omega a_1 + r\omega d$$

$$\frac{\omega}{r} (ra_1 + r^2 d) = \omega a_1 + r\omega d$$

$$10a_1 = \omega d$$

$$ra_1 = d$$

$$a_r = a_1 + d = ra_1 \quad \frac{a_r}{a_1} = \frac{ra_1}{a_1} = r$$

$$\frac{ra_1 + 10d}{ra_1 + 10d}$$

$$\frac{(t_q + t_\omega)(t_q - t_a)}{rt_v} = \frac{rt_v + rd}{t_v} = r \times \epsilon d = \Lambda d \rightarrow \Lambda \times \omega = \epsilon \omega$$

$$t_n = t_1 + (n-1)d$$

$$t_n = t_{n-r} + \omega$$

$$\rightarrow t_1 + (n-1)d = t_1 + (n-r)d + \omega$$

$$nd - d = nd - rd + 10$$

$$rd = 10 \rightarrow d = \omega$$

$$\frac{r + \sqrt{r} - r + 12\sqrt{r}}{12} = \frac{12\sqrt{r}}{12} = \sqrt{r} = d$$

$$10r - r = 10$$

$$\frac{r_0}{r_{n-1}} = \frac{10}{r_{n-1}} = d$$

$$q = nd$$

$$11 - r = q \rightarrow \text{in days}$$

$$q = \frac{10n}{r_{n-1}}$$

$$11n - 9 = 10n \rightarrow r_n = 9 \rightarrow n = 9$$

$$t_n + t_{n+f} = t_r + t_{iv}$$

$$r_{n+f} = r_0 \rightarrow r_n = 14 \rightarrow n = 14$$

$$t_n = r t_f \rightarrow t_n = t_n + r t_r \rightarrow r t_r = 0 \rightarrow t_r = 0$$

$$t_f + t_f + t_f = t_n + t_r + t_r$$