

19, 175

تکلیف 17

پویان، پیری

$$\frac{91 - \varepsilon_0}{r - 1} = \frac{r_1}{r} = V$$

$$d = V$$

$$Vn = 175$$

$$n = \boxed{175} \checkmark$$

(2) (1)

$$t_n = Vn + r_1$$

$$r_0 \Lambda = Vn + r_1$$

$$t_1 = 101$$

آزمون عدالین دنباله

$$\frac{905}{V} = \boxed{129} \checkmark$$

(2) (2)

$$t_n = Vn + 98$$

$$99V - 98 = 905$$

$$a_{\frac{1}{r}} + a_{\frac{1}{r}} + a_{\frac{1}{r}} = -9 + 12 = 3$$

$$\frac{a_r}{r} = \frac{9}{r} \Rightarrow a_r = 9$$

(2) (3)

$$a_r + a_{\frac{1}{r}} + a_{\frac{1}{r}} = -12 + 12 = 0$$

$$a_r = 9 \quad a_{\frac{1}{r}} = 0$$

$$a_r - a_{\frac{1}{r}} = 9$$

$$a_n = -2n + 1$$

$$\frac{a_{\frac{1}{r}} - a_r}{\frac{1}{r} - r} = \frac{-9}{r - \frac{1}{r}} = -2 = d$$

$$a_{175} + a_1 = (-2 \times 175) + (-1) = \boxed{-351} \checkmark$$

$$r^{n+1} - (r^n - 1) = (r^{2n-1} - r^n) - r^{n+1}$$

(2) (4)

$$\Rightarrow \text{اگر } n=2 \quad r^2 - 1 = r, \quad r^{2+1} = 1, \quad r^{2 \times 2} - r^2 = 12 \checkmark$$

$$r + 1 + 12 = \boxed{14} \checkmark$$

$$a_{1r} = a_{10} + rd$$

$$rd = a$$

$$a_{10} + rd + a_{10} = 2a \Rightarrow 2a_{10} + a = 2a$$

$$\left. \begin{array}{l} a_{10} = r_0 \\ a_{10} = 10 \end{array} \right\}$$

$$a_{1r} = 1a$$

(2) (5)

$$a_n = r_0 n - 1a$$

$$a_{r_1} = r_1 \times r_0 - 1a \Rightarrow a_{r_1} = 2 \times 175 - 1a = \boxed{350 - a} \checkmark$$

$$a_1 + a_1 + d + a_1 + rd + a_1 + rd + a_1 + \varepsilon d = 5a_1 + 10d$$

$$5a_1 + 5d + 5d + 5d + 5d + 5d = 5a_1 + 25d$$

(5) (5)

$$r(5a_1 + 10d) = 5a_1 + 25d$$

$$10a_1 + 20d = 5a_1 + 25d$$

$$10a_1 = 5d$$

$$a_1 = \frac{d}{2} \rightarrow d = 2a_1$$

دقت!

$$a_r = \frac{r}{r} a_1$$

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

$$d = \frac{1\omega}{\epsilon} = \omega \quad t_9 = t_\omega + 1_0$$

$$t_v = t_\omega + 1_0$$

(2) (1)

$$(t_\omega + 1_0)^r - t_\omega^r = \cancel{t_\omega^r} + \epsilon_0 t_\omega + \epsilon_{00} - \cancel{t_\omega^r} = \epsilon_0 t_\omega + \epsilon_{00} = \epsilon_0 (t_\omega + 1_0)$$

$$\frac{\epsilon_0 (t_\omega + 1_0)}{t_\omega + 1_0} = \boxed{\epsilon_0} \checkmark$$

$$r + \sqrt{r} - r(1 - 9\sqrt{r}) = \cancel{r} + \sqrt{r} \rightarrow r + 12\sqrt{r} = 12\sqrt{r}$$

(2) (1)

$$d = \frac{t_m - t_n}{m - n} \rightarrow \frac{\cancel{12}\sqrt{r}}{\cancel{12} - 1} = \boxed{\sqrt{r}} \checkmark$$

$$rr - r = r_0$$

$$11 - r = 9$$

$$\text{If } d=1 \Rightarrow n=9, \epsilon n - r = rr \quad X$$

$$\text{If } d=9 \Rightarrow n=1, \epsilon n - r = 1 \quad X$$

$$\text{If } d=r \Rightarrow n=r, \epsilon n - r = 9 \quad \checkmark$$

(2) (9)

$$9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29$$

$$\textcircled{1} \textcircled{2} \textcircled{3} \textcircled{4} \textcircled{5} \textcircled{6} \textcircled{7} \textcircled{8} \textcircled{9}$$

$$\boxed{n=r} \checkmark$$

$$ra_n + \epsilon d = ra_r + 1\epsilon d$$

$$ra_n = ra_r + 1_0$$

$$\frac{ra_n}{\cancel{r}} = \frac{r(a_r + ad)}{\cancel{r}}$$

$$an = a_1$$

$$a_1 = ra_r$$

$$a_\epsilon + \epsilon d = ra_\epsilon$$

$$\frac{ra_d}{\cancel{r}} = \frac{ra_\epsilon}{\cancel{r}}$$

$$rd = a_\epsilon$$

$$rd = a_r + rd$$

$$a_r = rd - rd$$

$$\boxed{a_r = 0} \checkmark$$

(2) (1)