

نام و نام خانوادگی جیسین جلیلی پاسخنامه تشریحی تکلیف شماره ۱.۲... کلاس ... ریاضی ۱۳۰۰

$$t_n = 5, 9, 13, 17, \dots$$

$$t_n = 4n + 1$$

$$b) \quad t_{10} = t(10) + 1 = 41$$

$$t_n = 4, 10, 14, 18 \rightarrow d_n = 4n + 2$$

$$s_n = \frac{n}{2} [2d_1 + (n-1)d]$$

$$a) \quad s_{10} = \frac{10}{2} [14 + 9d] = 5 [14 + 34] = 5 \times 48 = 240$$

$$b) \quad d_1, d_2, d_3, d_4 = d_5, d_6, d_7, d_8 \Rightarrow \text{جوابی} = d_{19}, d_{20}, d_{21}, d_{22}$$

$$d_{19} + d_{20} + d_{21} + d_{22} = s_{22} - s_{18} = 14 [12 + 10d] - (4 [12 + 8d]) = 14 [12 + 10d] - 4 [12 + 8d]$$

$$= 14 [12 + 10d] - 4 [12 + 8d] = 14 [12 + 10d] - 4 [12 + 8d]$$

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$$1 + \sqrt{3}, 2, 3 - \sqrt{3} \quad d_{18} - d_{17} = ?$$

$$d_{18} - d_{17} = 2d = 2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$$

$$d_n = 5^x, 3 \times 5^x, 5^y \quad d_2 = 3 \times 2 \times 5^x = 3 \times 5^x \quad d^y = 5^{x+1} = 5 \times 5^x$$

$$b_n = x, y, x+y \quad r = x+y$$

$$x - y = -1 \quad \begin{cases} 3x = 3 \Rightarrow x = 1 \\ x + y = 2 \Rightarrow y = 1 \end{cases} \Rightarrow \boxed{x=1, y=1}$$

$$y - 1, 2x - 1, 4x, \dots \quad 4x + 2 = 9x \quad 4x = 2 \Rightarrow x = \frac{1}{2}$$

$$t_2 = 1 \quad 4x + 2 = 4(\frac{1}{2}) + 2 = 4 \quad 4x + 0 = 2(\frac{1}{2}) + 0$$

$dn = r, \delta, v, q, 1 \mid dn = rn + 1 \rightarrow dr = \delta, d\delta = 1$ $dr = r1$
 $bn = r, \delta, \Lambda, 1, 1, 1 \mid bn = rn - 1 \rightarrow r, \delta, b, f = 1$ $br = \delta q$
 $tn = qn - 1 \rightarrow 0, 1, 1, 1, 1, 1 \leq qn - 1 \leq b, r, 0$ $q_{n-1} \leq +1$
1, 0 $q_n \leq r$
 $r \leq qn - 1 \leq \delta q$ 1, r
 $r \leq qn \leq q_0$
 $\frac{1}{r} \leq n \leq 10 \rightarrow 2 \times 10$

$d1 + dr + d\mu = r1 \rightarrow rdr + dr = rdr = r1 \Rightarrow dr = v$
 $d1 + d\mu + d\delta = 1\delta \rightarrow rdr + d\mu = rdr = r\delta \Rightarrow d\mu = r\delta$ y
 $\Rightarrow d1 = r1 - r\delta = -r1$
 $\frac{dr - dr + d1}{d1} = \frac{r\delta - v + (-r1)}{-r1} = \frac{v}{-r1} = -\frac{1}{r}$ ✓

$d1 + dr + d\mu = 1\delta \quad d\mu + d\delta = r\delta \quad d1 + dr + d\mu + d\delta + d\delta = r\delta$
 $d1\delta = r$ $\downarrow$ $rdr = 1\delta$ $\delta d\mu = r\delta$
 $\Rightarrow dr = \delta$ $\Rightarrow d\mu = r$
 $d1\delta = d\mu + vd = r + vd = r + r1 = r q$ ✓ y

$\delta q = q \delta \mu \quad \delta q = r1\delta [rd1 + \delta d] = q \times 1\delta [rd1 + r\delta]$
 $\downarrow$
 $q d1 + r r d = r r d1 + r r d$
 $\frac{dr}{dv} = 1$ $ind1 = q\delta$
 $\Rightarrow \delta = r d1$ y
 $\frac{dr}{dv} = \frac{d1 + r\delta d}{d1 + r\delta d} = \frac{d1 + r r d1}{d1 + r r d1} = \frac{r q d1}{r q d1} = r$ ✓

$d1 = 11, dv = r\delta \rightarrow d = \frac{dv - d1}{v - 1} = \frac{r\delta - 11}{v - 1} = \frac{r + 1}{4} = r$
 $b1 = r\Lambda \quad b_{m+1} + r = 1r \quad \Downarrow \quad \frac{v - 1}{v - 1} = \frac{r + 1}{4} = r$
 $dn = rn + v \rightarrow df = f(c\epsilon) + r = r r$
 $d1 = r\Lambda, dr, d\mu, d\delta, d\delta, \dots$ $df = r r = d1 + r\delta = r n + r\delta$
 $\Rightarrow r\delta = r r - r\Lambda$
 $\Rightarrow \delta = \delta$ y
 $d = \frac{1r - r\Lambda}{m+1}$ $-0 = \frac{1r - r\Lambda}{m+1} = \frac{-r\delta}{m+1} \Rightarrow m+1 = \delta$
 $\Rightarrow m = r$ ✓