

نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۲... کلاس دهم... تاریخ

الف - $t_n = 5, 9, 13, 17, \dots$
 $+2 \quad +2 \quad +2$
 ب - $t_{10} = 2 \times 10 + 1 = 21$
 ج - $t_n = 2n + 1$

الف - $t_n = 4, 10, 16, 22, \dots$
 $+6 \quad +6 \quad +6$
 ب - $S_{10} = \frac{10}{2} (2 \times 4 + (10-1) \times 6) = \frac{10}{2} \times 58 = 290$
 ج - $S_{10} = \frac{10}{2} (a_1 + a_{10}) = \frac{10}{2} (4 + 22) = 130$
 د - $S_{10} = \frac{10}{2} (a_1 + a_{10}) = \frac{10}{2} (4 + 22) = 130$

الف - $t_n = 1, 2, 3, 4, 5, \dots$
 $+1 \quad +1 \quad +1 \quad +1 \quad +1$
 ب - $d = 2 - (1 + 0 \times 1) = 2 - 1 = 1$
 ج - $d = 2 - (1 + 0 \times 1) = 2 - 1 = 1$
 د - $d = 2 - (1 + 0 \times 1) = 2 - 1 = 1$

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الف - $a_n = 5^x, 3 \times 5^x, 5^y \Rightarrow 5^x, 3 \times 5^x, 5^y$
 $d = 3 \times 5^x - 5^x = 5^x (3-1) = 2 \times 5^x$
 ب - $b_n = x, y, z$
 $d' = y - x = 3 - 2 = 1$
 $d' = z - y = 4 - 3 = 1$
 ج - $d' = y - x = 3 - 2 = 1$
 د - $d' = z - y = 4 - 3 = 1$

الف - $t_n = 2x - 1, 2x - 3, 2x - 5, \dots$
 $+2 \quad +2 \quad +2$
 ب - $d = 2$
 ج - $d = 2$
 د - $d = 2$

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 ب - $d = 2$
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الف - $t_n = 2x - 1, 2x - 3, 2x - 5, \dots$
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 ب - $d = 2$
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$$\begin{aligned}
 a_n &= 3, 5, 7, 9, 11, 13, \dots & a_n &= 3 + (n-1) \cdot 2 \\
 b_n &= 2, 5, 8, 11, \dots & a_{10} &= 3 + (10-1) \cdot 2 = 3 + 18 = 21 \\
 & & b_n &= 2 + (n-1) \cdot 3 \\
 & & b_{10} &= 2 + (10-1) \cdot 3 = 2 + 27 = 29
 \end{aligned}$$

$\omega \leq \epsilon_n - 1 \neq 1 \pm 1$
 $\neq \epsilon_n \neq 1 \neq 1$
 $1 \neq n \neq 1$

$$\begin{aligned} a_1 + a_r + a_r &= r_1 & \rightarrow & a_1 + a_1 + d + a_1 + r_1 d = r_1 \\ & & & r_1 a_1 + r_1 d = r_1 \\ a_1 + a_r + a_0 &= 100 & \rightarrow & a_1 + a_1 + r_1 d + a_1 + r_1 d = 100 \\ \frac{a_r - a_r + a_1}{a_1} &= ? & & r_1 a_1 + r_1 d = 100 \end{aligned}$$

$$\begin{aligned} -r_1 a_1 + r_1 d &= r_1 \\ r_1 a_1 + r_1 d &= 100 \\ r_1 d &= 100 \rightarrow d = 100 \end{aligned}$$

$$\begin{aligned} r_1 a_1 + r_1 d &= r_1 \\ r_1 a_1 + 100 &= r_1 \\ r_1 a_1 &= 0 \rightarrow a_1 = 0 \end{aligned}$$

$$P \sim r \frac{a_1 + d - (a_1 + d) + a_1}{a_1} = \frac{a_1 + d - a_1 - d + a_1}{a_1} = \frac{a_1}{a_1} = 1$$

$$\begin{aligned} 10 &= 10a + 10d \\ 20 &= 20a + 20d \\ a + d &= 1 \\ 2a + 2d &= 2 \\ 10d &= 10 \rightarrow d = 1 \\ a + 1 &= 1 \rightarrow a = 0 \end{aligned}$$

$$S_9 = 95r$$

$$\cancel{r} (r a_1 + (9-1)d) = \frac{9r}{\cancel{r}} (r a_1 + (9-1)d)$$

$$r a_1 + 1d = r(r a_1 + 8d)$$

$$r a_1 + 1d = r a_1 + 8d$$

$$1d - 8d = r a_1 - r a_1$$

$$7d = r a_1$$

$$d = r a_1$$

$$\frac{a_{r_0}}{a_v} = \frac{a_1 + (r_0-1)d}{a_1 + (v-1)d}$$

$$\frac{a_{r_0}}{a_v} = \frac{a_1 + 19d}{a_1 + 4d} \quad * d = r a_1$$

$$\frac{a_{r_0}}{a_v} = \frac{a_1 + 19 r a_1}{a_1 + 4 r a_1} = \frac{r a_1 (19 + \frac{a_1}{r a_1})}{r a_1 (4 + \frac{a_1}{r a_1})} = \frac{19}{4}$$

$a_1 = 11$ $d = \frac{a_m - a_n}{m - n}$
 $a_n = 100$ $= \frac{100 - 11}{10 - 1} = \frac{89}{9} = 9.88$
 $a_k = a_1 + (k-1)d = 11 + (10-1) \cdot 9.88 = 11 + 89.72 = 100.72$