

الف) (جمله عمومی دنباله) $\leftarrow$ ب) جمله ۱۰ام $\leftarrow$	۱
الف) مجموع ۱۰ جمله اول $\leftarrow$ ب)	۲
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$$t_n = 5, 9, 13, 17$$

$+4 \quad +4 \quad +4$

$$t_{n+1}$$

$$t_{10+1} = t_{11} = 21$$

$$t_n = 4, 10, 16, 22$$

$+6 \quad +6 \quad +6$

$$\frac{10}{2} (22 + 4) = 140$$

$$t_{11} + t_{12} + t_{13} + t_{14} = 118 + 122 + 126 + 130 = 496$$

$$1 + \sqrt{3}, 2, 3 - \sqrt{3}, \dots \rightarrow d = 1 - \sqrt{3} \rightarrow (1 - \sqrt{3})n + 2\sqrt{3}$$

$$t_{11} = (1 - \sqrt{3})11 + 2\sqrt{3} = 11 - 11\sqrt{3} + 2\sqrt{3} = 11 - 9\sqrt{3}$$

$$t_{10} = (1 - \sqrt{3})10 + 2\sqrt{3} = 10 - 10\sqrt{3} + 2\sqrt{3} = 10 - 8\sqrt{3}$$

$$10 - 8\sqrt{3} - (11 - 9\sqrt{3}) = 10 - 8\sqrt{3} - 11 + 9\sqrt{3} = -1 + \sqrt{3}$$

$$\left. \begin{array}{l} a_n = a^x, 1^x, 2^x, 3^x, \dots \\ b_n = x, 2, 4, \dots \end{array} \right\} \begin{array}{l} x=1, y=3 \\ a_n = 1, 2, 4, 8, \dots \\ b_n = 1, 2, 4, 8, \dots \end{array} \rightarrow 1 \times 1 = 1$$

$$2x - 5, 2x - 1, 4x, \dots \rightarrow \frac{2x - 5 + 4x}{2} = 2x - 1 \rightarrow 2x - 1 = 2x - 5 \rightarrow$$

$$2x = 4 \rightarrow x = 2$$

$$2 \times \frac{1}{2} - 5, 2 \times \frac{1}{2} - 1, 4 \times \frac{1}{2}$$

$\downarrow \quad \downarrow \quad \downarrow$

$$-4, 0, 2 \rightarrow 3n - 4 \rightarrow 3 \times 4 - 4 = 12 - 4 = 8$$

$$a_n = r, a, v, \dots \rightarrow d = r \rightarrow r_{n+1} \xrightarrow{r_0 \text{ م.م.}} \varepsilon$$

$$b_n = r, a, \Lambda, \dots \rightarrow d = r \rightarrow r_{n-1} \xrightarrow{\text{م.م.}} a$$

$$\boxed{v \text{ جملی مستر}}$$

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$$x-d + x + x+d = r_1 \rightarrow r_x = r_1 \rightarrow \boxed{x = v}$$

$$v-d + v+d + v+r_d = 10a \rightarrow r_d = 10a \rightarrow \boxed{d = r_n}$$

$$\left. \begin{array}{l} a_1 = -r_1 \\ a_r = r_a \\ a_v = 9r \end{array} \right\} \rightarrow 9r - r_a - r_1 = \boxed{v}$$

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$$a_1 + a_r + a_v = 1a \quad a_\varepsilon + a_a = r_a$$

$$\left. \begin{array}{l} a-d + a + a+d = 1a \rightarrow r_a = 1a \rightarrow \boxed{a = a} \\ a+r_d + a+r_d = r_a \rightarrow \boxed{d = r} \end{array} \right\} \begin{array}{l} r_a, \Lambda, \dots \xrightarrow{r_r} r_{n-1} \\ r_x 10 - 1 = r_9 \end{array}$$

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$$\frac{9}{r} (x-d + x + v d) = 9 \left(\frac{r}{r} (\cancel{x-d} + \cancel{x} + d) \right)$$

$$\frac{1rx + a\varepsilon d}{r} = \frac{ra(x + rd)}{r} \quad \left. \begin{array}{l} rv \times r = a\varepsilon \\ 1a \times r = a\varepsilon \end{array} \right\} \rightarrow d = r, x = r$$

$$\left[\frac{rv_9}{1a} \right] = a\varepsilon \quad \frac{a_{r_0}}{a_v} = \frac{rv_9}{1r} = \boxed{r}$$

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$$a_1 = 11, a_v = r_a \rightarrow r_a = 11 + 9d \rightarrow r_a - 11 = 9d \rightarrow d = \varepsilon \rightarrow a_n = \varepsilon n + v \rightarrow$$

$$11, 1a, 19, r_r, \dots$$

$$r_\Lambda, \dots, r_r, \dots, 1r \rightarrow \left. \begin{array}{l} a_1 = r_\Lambda \\ a_\varepsilon = r_r \end{array} \right\} \rightarrow r_r = r_\Lambda + r_d \rightarrow d = -a \xrightarrow{\text{م.م.}}$$

$$r_\Lambda, r_r, r_\Lambda, r_r, 1a, 1r \rightarrow \frac{-a n + r_r}{1a, 19, \varepsilon}$$

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