

سوال اول

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$$t_1 = 5 = 2(1) + 1 = 3$$

$$t_n = 2n + 1$$

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$$\frac{9}{2} \left(\frac{x-d+n+vd}{v n + vd} \right) = 9 \left(\frac{\frac{w}{v} (x-d+n+vd)}{v n} \right)$$

$$\frac{1 \cdot n + 0 \cdot d}{v} \cdot \frac{9 (x-d+n+vd)}{v} \cdot v n = v v n$$

$$\Rightarrow \text{دنباله } 1, 3, 5, \dots$$

$$\text{جمله عمومی} = v n - 1$$

$$\Rightarrow 9n + vvd = vvn$$

$$\Rightarrow vvd = 18n$$

$$v \cdot v \cdot d = 0 \cdot 4 \Rightarrow d = 2, n = 3$$

$$[v, 18] = 0 \cdot 4 \Rightarrow 18 \times 3 = 0 \cdot 4$$

$$\Rightarrow a_{v0} = 39$$

$$a_v = 13 \Rightarrow \frac{a_{v0}}{a_v} = \frac{39}{13} = 3$$

$$t_1 = 11, t_v = 38$$

$$\begin{cases} a + b = 11 \\ v a + b = 38 \end{cases}$$

$$\Rightarrow a = 25 \Rightarrow a = 4, b = 7$$

$$\text{جمله عمومی} = 4n + 7$$

سوال ۱۰

$$\Rightarrow \text{دنباله } 11, 18, 19, 23, 27, 31, \dots$$

$$\text{جمله عمومی}$$

$$\rightarrow \text{در دنباله دوم} \quad b_1 = 31, b_4 = 23$$

$$\Rightarrow \begin{cases} a + b = 31 \\ 4a + b = 23 \end{cases} \Rightarrow 3a = -10 \Rightarrow a = -\frac{10}{3}, b = \frac{59}{3}$$

$$\text{جمله عمومی} = -\frac{10}{3}n + \frac{59}{3}$$

$$\text{دنباله دوم} = 31, 33, 28, 23, 18, 13$$

۴ واسطه حسابی باید درج کنیم