

$$\frac{a_1 - s}{r} = v = d \quad \text{خیر نامرتب و کشیده!!}$$

$$r \cdot n = r_0 + (n-1)v$$

$$r \left\{ \frac{14}{v} = n-1 \Rightarrow n = 20 \right. \checkmark$$

IV

$$1.1, 1.1, \dots, 99V$$

$$1.1, 99V, 1.1$$

$$\frac{99V - 1.1}{v} + 1 = 129 \checkmark$$

$$\frac{a_1}{v} + \frac{a_n}{r} = a_{14} + a_9 = -13 \checkmark$$

$$n=1 \quad 12r + r + r$$

$$n=17 \quad a_{17} + a_{17} + a_{17} = 0$$

$$3a_{17} = 0$$

$$a_{17} = 0$$

$$d = -1$$

$$a_n = a_1 + (n-1)d = -1$$

$$a_1 = 9$$

$$a_r + a_{17} + a_r = 9$$

$$2a_r = 9$$

$$a_r = 1$$

$$r^{n-1} = 1 - 1 + r^{n-1} + \dots + r^{n-1} = 0 \quad (1)$$

$$a_r + a_{17} = 2a_n \Rightarrow r^{n-1} + r^{n-1} = r^{n-1}$$

$$r^{n-1} + r^{n-1} - r^{n-1} = r^{n-1} \quad r = t \quad t' + t - r = 0$$

$$t = r - 1 \quad n = 1$$

$$t = -1 \quad x$$

$$جواب : 3, 8, 13 \rightarrow (24)$$

$$a_{12} - a_{10} = 5$$

$$a_1 + 9d - (a_1 + 11d) = 5$$

$$-2d = 5$$

$$d = \frac{-5}{2}$$

$$2a_1 + 2 \cdot d = 20$$

$$2a_1 + \frac{2 \cdot (-5)}{2} = 20$$

$$\Rightarrow a_1 + 11d = 20 - 2 \cdot (-5) = 30$$

$$\frac{30}{11} = 2.72$$

$$2a_1 = 20 - 2d$$

$$a_1 = \frac{20 - 2d}{2} = 10 - d = 10 - (-2.5) = 12.5$$

سوال گفته  $a_{12}$  روز از  $a_1$  کم  
میکنیم!

⑤  
①

① ② ③ ④ ⑤

$$\frac{d}{a_n} = \frac{1}{r}$$

$$1 \cdot a_n = a_n$$

$$r a_n = a_n$$

$$r(a_1 + (n-1)d) = a_1 + (n-1)rd$$

$$r a_1 + (n-1)rd = a_1 + (n-1)rd$$

$$r a_1 = a_1$$

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

$$\frac{d}{r} = \frac{1}{r}$$

$$\frac{d}{r} = \frac{1}{r}$$

$$\frac{rd}{rd} = \frac{1}{rd}$$

②

⑥

$$\frac{(t_1 + 11d)(-rd)}{(t_9 + 10d)(t_9 - t_0)} = 1d \Rightarrow r = -2$$

$$r = -2 \quad n = 11 \quad rd = -2d = 20$$

②

⑦

Udhëzues

$$d = \frac{-14 \pm \sqrt{11^2 - 4 \cdot 1 \cdot 15}}{2 \cdot 1}$$

(2) a

$$d = \frac{-14 \pm \sqrt{11^2 - 4 \cdot 1 \cdot 15}}{2 \cdot 1} \Rightarrow d = (+\sqrt{13}) \checkmark$$

$$d = \frac{10}{15 - 1}$$

(2) a

$$a_n = a_1 + (n-1)d$$

$$a_{11} = 11 \cdot \frac{10}{15 - 1}$$

$$a = \frac{11 \cdot 10}{15 - 1}$$

$$a = \frac{110}{14} \Rightarrow 14a - 11 = 110$$

$$14a = 121$$

$$4a = 11$$

$$a = 11 \checkmark$$

$$n = 1$$

(2)

10

$$n + n + \Sigma = 1 + a_n$$

$$1n + 17 = 1 + a_n \Rightarrow a_n = 16 \checkmark$$

$$a_1 = 1 \checkmark$$

$$a_n = 1(n) \Rightarrow 1 \cdot 16 = 16$$

$$1 + 16 = 17 \Rightarrow a_n = 16$$