

کار به سببی - دهم دختر B

14, 2

$$a_1 = 40 \rightarrow \frac{41}{4} = 40 + 3d$$

$$a_8 = 41 \rightarrow d = 1$$

$$a_n = 201 \text{ } n=? \rightarrow 40 + (n-1)1 = 201$$

$$40 + 1n - 1 = 201 \rightarrow 1n = 162 \rightarrow n = 162$$

$$a_n = \sqrt{n+3}$$

→

$$100 \leq \sqrt{n+3} \leq 999 \rightarrow 1 \leq n \leq 142 \rightarrow \frac{142-1}{2} + 1 = 71$$

$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 12$$

روش پاسی بیه نوشته شده است!

$$a_1 + nd + a_1 + nd + d + a_1 + nd + 2d = 3a_1 + 3nd + 3d = -4n + 12$$

$$3a_1 + 3d(n+1) = -4n + 12$$

$$r^n - 1 = ar$$

$$r^{n+1} = ar$$

$$r^{n+1} - r = ar$$

↓ n=2

$$a_{10} - a_1 = a_1 + 9d - a_1 = 9d$$

$$a_n - a_9 = a_9 + d - a_9 = d$$

$$a_{10} - a_1 = a_1 - a_9$$

$$r^n - r = r^{n+1} - r^{n+1} = r^{n+1} - r^{n+1}$$

$$r^n - r^{n+1} = r^{n+1} - r^{n+1}$$

$$r^n(r - r^{n+1}) = 0 \rightarrow n = 2$$

$$a_{12} - a_1 = 0 \rightarrow a_{12} + 11d - a_1 = 0 \rightarrow 11d = 0 \rightarrow d = 0$$

$$a_{12} + a_1 = 20 \rightarrow 2a_1 + 11d = 20 \rightarrow a_1 = 10$$

$$a_{21} = ? \rightarrow a_{10} + 11d = 10 + \frac{11 \cdot 10}{2} = \frac{121}{2}$$

$$a_{21} = \frac{121}{2}$$

$$w_{a_1+d} = \frac{1}{w} (w a_1 + w d)$$

(6)

$$\hookrightarrow w(a_1+d) = \frac{1}{w} (w(a_1+d)) \rightarrow w a_1 + w d = a_1 + d$$

$$w a_1 - d > 0 \rightarrow w a_1 = d$$

$$\frac{a_r}{a_1} = ? \rightarrow \frac{a_1+d}{a_1} = \frac{a_1 + \frac{w a_1}{w}}{a_1} = \frac{w}{w}$$

$$a_n + w = a_{n+1} \rightarrow n=1 \rightarrow a_1 + w d = a_1 + d$$

(7)

$$\boxed{d = \Delta} \quad \frac{(t_9 + \Delta)(t_9 + \Delta)}{t_v} = \frac{r + v(r + d)}{t_v} = n d = \frac{r}{t_v}$$

$$t_9 + \Delta = t_v + t_v = r + v \quad t_9 - t_8 = t_1 + n d - t_1 - d = s d$$

$$\frac{r + \sqrt{w} - r + 1 \sqrt{w}}{1 \sqrt{w}} = \frac{1 \sqrt{w}}{1 \sqrt{w}} = \sqrt{w}$$

(8)

$$d = \frac{w r - r}{r_{n-1}} = \frac{1 \omega}{r_{n-1}}$$

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

$$a_{n+1} = r + (n)d$$

$$r + \frac{n \omega}{r_{n-1}} = 1$$

$$\frac{1 \omega n}{r_{n-1}} = 9 \rightarrow 1 \omega n = 1 \omega n - 9 \rightarrow 9 = n \omega \rightarrow n = \frac{9}{\omega}$$

(9)

$$a_n + a_{n+1} = a_1 + a_2 \rightarrow r + r = r_0 \rightarrow n = 1$$

(10)

$$a_n = w a_1 \rightarrow a_n = w a_2 \rightarrow a_1 + w d = w a_1 + d \rightarrow w a_1 + d = 0$$

$$a_2 = 0 \quad \frac{a_1+d}{a_1} = 0$$

$$n=1 \rightarrow a_2 + a_3 + a_4 = 4 \quad \text{نمونه}$$

$$n=2 \rightarrow a_3 + a_4 + a_5 = 0 \rightarrow a_5 - a_3 = -4$$

$$a_1 + a_5 - a_1 - 2d = -4 \rightarrow 2d = -4 \rightarrow d = -2$$

$$a_2 + a_3 + a_4 = 4 \rightarrow 3a_1 + d + 2d + 3d = 4 \rightarrow 3a_1 = 11 \rightarrow$$

$$a_1 = 4$$

$$a_{11} + a_{12} = a_1 + a_1 + 10d + 10d$$

$$2a_1 + 20d = 2(4) + 20(-2) = -32$$