

$$\begin{cases} t_1 = 1 \\ t_2 = \omega \\ t_3 = 1^2 \\ t_4 = 2^2 \end{cases} \Rightarrow A = \begin{pmatrix} 1 & \omega & 1^2 & 2^2 \end{pmatrix} \Rightarrow t_1 = 1^2 \omega$$

$$\begin{cases} -x \begin{pmatrix} 1 & \omega & 1^2 & 2^2 \end{pmatrix} \begin{pmatrix} A \\ B \\ C \end{pmatrix} = -1 \\ 9 + 2B + C = \omega \end{cases} \Rightarrow \begin{cases} B = -\frac{1}{2} \\ C = 0 \end{cases}$$

$$t_{\text{متن}} = \frac{n(n+1)}{2} \Rightarrow t_n = \frac{(n-1)n}{2}$$

$$\Rightarrow \frac{(n-1)n}{2} = \frac{(n-1)n}{2} \Rightarrow 11 = n^2 - n \Rightarrow n^2 - n - 11 = 0$$

$$\Rightarrow (n-11)(n+1) \Rightarrow n = 11 \text{ و } n = -1 \Rightarrow n = 11$$

$$t_{\text{متن}} = \frac{n(n+1)}{2} \Rightarrow a_n = 8n - 3 \rightarrow a_{11} = 85$$

$$\begin{cases} -x \begin{pmatrix} 1 & \omega & 1^2 & 2^2 \end{pmatrix} \begin{pmatrix} A \\ B \\ C \end{pmatrix} = -1 \\ 9 + 2B + C = 13 \end{cases} \Rightarrow \begin{cases} B = 2 \\ C = 0 \end{cases}$$

$$\Rightarrow t_{11} = 4 + 12 - 1 = 15$$

$$b_n = n+1 \rightarrow b_{11} = 12$$

$$a_1 = \frac{-1}{1}$$

$$a_2 = \frac{1}{2}$$

$$a_3 = \frac{-1}{3}$$

$$|-1 - \frac{1}{2}| = |-1.5| = 1.5$$

$$-\omega k + 22 = -27 - 21$$

$$\omega k = 20$$

$$k = 13$$

$$r_d = 1\%$$

$$d = 7$$

$$a + r - a = r \quad \checkmark$$

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$$MA = 1$$

$$d = r$$

$$t_n = r_n - 1$$

$$t_1 = w_g + t_w = 11 \Rightarrow t_{h(B)} = 11n - 2$$

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Y

$$\frac{m}{m} < \frac{m^2}{m}$$

$$\frac{14}{14} \quad \frac{14}{14}$$

9 10 ✓

⑦

 $\wedge$

Handwritten diagram showing a sequence of numbers: 4, 2, 9, 9, 9, 4, 9, 9, 9, 2, 2. Arrows indicate a path starting from the first 4, moving right to the first 9, then down to the second 9, then right to the third 9, then down to the 4, then right to the first 9, then down to the second 9, then right to the third 9, then down to the first 2, and finally right to the second 2. Below the path, signs are written: +, -, +, -, +, -.

$$\Rightarrow A = \frac{1}{4}\omega \quad \Rightarrow \begin{cases} \frac{1}{4}\omega - B - C = -9 \\ -9 + 14B + C = 9 \end{cases} \Rightarrow \begin{cases} B = \frac{1}{4}\omega \\ C = 0 \end{cases}$$

$\omega A + \omega B =$ 

Q

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$$p_d = 1.$$

$$d = \omega \Rightarrow t_n = \omega n + \mu$$

$$\Rightarrow dn + |r| = n^r - n - 9$$

$$\Rightarrow n^p - g_n - 2V = 0 \Rightarrow (n-9)(n+13)$$

$$\Rightarrow n = 92 \Rightarrow (9 = 1^2 + 2^2 + 2^2)$$

$$-49 - \sqrt{2} \cdot 7 = -49 - 7\sqrt{2}$$

$$\begin{aligned} & \text{P} + \text{P} \\ & \text{P} + \text{P} \Rightarrow A=1 \Rightarrow \begin{cases} -x^2 - 1 - B - C = 4 \\ x^2 + Bx + C = -x^2 \end{cases} \Rightarrow \begin{cases} B = -1 \\ C = -5 \end{cases} \end{aligned}$$

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