

$$t_n = 5, 9, 13, 17$$

(1) الف

$$\frac{5}{a} \quad 9 \quad 13 \quad 17$$

$$\Rightarrow t_n = 4n + b$$

$$t_1 = 5 = 4 + b \Rightarrow b = 1$$

$$\Rightarrow t_n = 4n + 1$$

$$t_{11} = 4(11) + 1 = 45$$

ب

$$t_n = 6, 10, 14, 18$$

(2) الف

$$\frac{6}{a} \quad 10 \quad 14 \quad 18$$

$$\Rightarrow t_n = 4n + 2 \Rightarrow S_n = \frac{n}{2} (2 + 4n)$$

$$\Rightarrow t_1 = 6 = 4 + 2 \Rightarrow S_n = \frac{n}{2} (2 + 4n) = 2n^2 + n$$

$$S_{r_1 - r_2} = t_{r_1} + t_{r_2} + t_{r_1} + t_{r_2}$$

$$\Rightarrow S_{r_1 - r_2} = \frac{n}{2} (t_{r_1} + t_{r_2})$$

$$t_{r_1} = 4(11) + 2 = 46$$

$$t_{r_2} = 4(11) + 2 = 46$$

$$\Rightarrow S_{r_1 - r_2} = 2(46 + 46) = 184$$

$$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$$

13

$$t_{r_1} - t_{r_2} = d$$

$$d = 1 - 1 - \sqrt{2} = 1 - \sqrt{2} \Rightarrow t_{r_1} - t_{r_2} = 2(1 - \sqrt{2}) = 2 - 2\sqrt{2}$$

$$a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z$$

جواب: در برگه بعدی

$$\Rightarrow \omega^x + \omega^y = 2 \times \omega^x \Rightarrow \omega^y = \omega^x \Rightarrow y = x \Rightarrow \omega^y = \omega^x$$

$$x + y = 2 \Rightarrow x = 2 - y$$

$$\omega^x + \omega^y = 2 \times \omega^x \Rightarrow \omega^y = \omega^x \Rightarrow y = x \Rightarrow \omega^y = \omega^x$$

$$a, b, c \Rightarrow a, c = 2b$$

(10)

$$4x + 2x - 2 = 12x - 2 = 2x - 2 \Rightarrow 2x = 2$$

$$\boxed{x = \frac{1}{1}} \Rightarrow -2, 0, 2$$

$$\begin{matrix} r_1 & r_2 \\ \hline & a \end{matrix}$$

$$\Rightarrow t_n = 2n - 2$$

$$\Rightarrow t_1 = 2(1) - 2 = 0$$

$$a_n = 2, 4, 6, \dots \Rightarrow a_n = 2n + 1$$

$$b_n = 2, 4, 1, \dots \Rightarrow b_n = 2n - 1$$

$$\Rightarrow [2, 2] = 2 \Rightarrow t_n = 2n - 1$$

$$t_n = 0, 11, 12, \dots$$

$$a_{r_1} = 21 \Rightarrow t_n \leq 21 \Rightarrow 2n - 1 \leq 21$$

$$\Rightarrow n \leq 11$$

$$n = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11$$

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$$a_1 + a_r + a_r = 21 \Rightarrow 2a_1 + 2d = 21$$

$$a_1 + a_r + a_d = 1.0 \Rightarrow 2a_1 + 2d = 1.0$$

$$d = 21$$

$$\Rightarrow 2a_1 + 2(21) = 21$$

$$\Rightarrow 2a_1 = -21$$

$$\Rightarrow a_1 = -10.5$$

$$\frac{d}{2r+d-a_r}$$

$$a_r + a_r + a_1 = d - 21 = 21 - 21 = 0 \Rightarrow a_r - a_r + a_1 = 0$$

$$\frac{a_1}{a_1} = \frac{0}{-21} = \boxed{\frac{-1}{21}}$$

$$a_1 + a_r + a_r = 10 \Rightarrow 2a_1 + 2d = 10$$

$$a_1 + a_d = 2d \Rightarrow 2a_1 + 2d = 2d \Rightarrow a_1 = 0$$

$$1.2d \Rightarrow 2d = 10 \Rightarrow d = 5$$

$$\Rightarrow 2a_1 + 2d = 10 \Rightarrow a_1 = 0$$

$$\Rightarrow a_n = a_1 + (n-1)d = 0 + (n-1)5$$

$$\Rightarrow a_{10} = 0 + (10-1)5 = \boxed{45}$$

$$\frac{a_{r_1}}{a_v} = \frac{a_{10d}}{a_{10d}} = \frac{10/10d}{10/10d} = \boxed{1}$$

$$a_{s_r} = 6a$$

$$\Rightarrow 2(a_1 + a_r + a_r) = a_1 + a_r + a_r + \dots + a_q$$

$$2 \times \frac{q}{r} (a_1 + a_r) = \frac{q}{r} (a_1 + a_r) \Rightarrow \frac{a_1 + a_r}{a_1 + a_r} = \frac{q}{r} = \frac{1}{r} \Rightarrow a_1 + a_r = a_1 + a_r$$

