

19

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$$t_n = 2, 9, 17, 14, \dots$$

$$f_{n+1}$$

1. (الف) t_{n+1}
(ب) f_1

$$t_{10} = f \times 10 + 1 = 41$$

$$t_n = 4, 10, 17, 11, \dots \rightarrow t_n = f_{n+2}$$

2. (الف) $2f_2$

$$S_n = \frac{n(n+1)}{2} \quad L = (10 \times 4) + 5 = 45 \quad S_{10} = \frac{10}{2} (4 + 45) = 245$$

(ب) 494

$$t_{19} = 4 \times 19 + 1 = 77 \quad t_{17} = 15$$

$$1 + \sqrt{r}, \sqrt{r}, r - \sqrt{r}, \dots$$

$$\sqrt{r} = 1, \sqrt{r}$$

3. (الف) $2d$

$$t_{19} - t_{17} = 2d \rightarrow 2(1 - \sqrt{r}) = 2 - 2\sqrt{r}$$

$$a_n = 2^x, 5 \times 2^x, 2^y, \dots \quad \Delta^{2x} = 2^x$$

4. (الف) $1 \times 5 = 5$

$$b_n = 2, 4, 8, \dots \quad 1 \times 5 = 5$$

$$2 + 3 = 5 \rightarrow 1, 5$$

$$2x-1, 2x-1, 4x, \dots$$

5. (الف) 1

$$b = \frac{a+c}{2} = 2x-1 = \frac{(2x-1) + (4x)}{2} = 2x-1 = \frac{6x-1}{2} = 2x-1 = \frac{x(2x-1)}{1 \times 1}$$

$$2x-1 = 2x-1 = 1$$

$$u = \frac{1}{p} \quad t_f = 4$$

$$a_n = 5, 2, -1, \dots \quad t_n = 2n+1$$

$$b_n = 5, 2, -1, \dots \quad t_n = 2n-1$$

$$t_n - t_{n-1} = 4n-1$$

$$t_n - t_{n-1} = 4n-1$$

$$a_{r_0} = 5 \times 5 + 1 = 26$$

$$V \rightarrow \frac{1}{2} \times 26 = 13$$

$$4n-1 \leq 1 \rightarrow 4n \leq 5 \quad n \leq 1$$

$$a_1 + a_r + a_r = 11 \quad a_r - a_r + a_1 = 11 \quad t_n = 2n-1$$

$$a_1 + a_r + a_d = 10$$

$$a_1$$

$$r_0 - r = 11$$

$$a_1 = -11$$

$$\frac{a_r - a_r + a_1}{a_1} = \frac{r_0 - V + (-r_1)}{-r_1}$$

$$2a_r = 11 \rightarrow a_r = 5.5$$

$$a_r = \frac{a_1 + a_d}{2} \rightarrow 2a_r = 10 \rightarrow a_r = 5$$

$$\frac{V}{-11} = -\frac{1}{11} \quad \text{وقت!}$$

$$a_1 + a_r + a_r = 10 \rightarrow 2a_r = 10 \rightarrow a_r = 5$$

$$a_r + a_d = 10 \rightarrow a_1 + a_r + a_r + a_d = 10 + 10 \rightarrow 2a_r = 20 \rightarrow a_r = 10$$

$$a_n = 2n-1 \quad a_{r_0} = 5-1 = 4$$

$$a_1 \neq 0 \quad S_a = 9S_r \quad \frac{a_{r_0}}{a_r} = ?$$

$$S_r = 2a_r \rightarrow S_a = 2Va_r \quad S_a = 9a_d \rightarrow 2Va_r = 9a_d$$

$$\rightarrow a_r = a_1 + d$$

$$2V(a_1 + d) = 9(a_1 + 9d) = 2Va_1 + 2Vd = 9a_1 + 81d$$

$$\rightarrow a_d = a_1 + 9d$$

$$\rightarrow 11a_1 = 9d \rightarrow a_1 = \frac{9}{11}d \quad d = 2a_1$$

$$\left. \begin{array}{l} a_{r_0} = a_1 + 9d \\ a_r = a_1 + d \end{array} \right\} \frac{a_{r_0}}{a_r} = \frac{a_1 + 9(2a_1)}{a_1 + 2a_1} = \frac{19a_1}{3a_1} = \frac{19}{3}$$

$$\left. \begin{array}{l} a_1 = 11 \\ a_v = 22 \end{array} \right\} d = \frac{t_m - t_n}{m - n} = \frac{r_0 - 11}{4} = 7 \rightarrow t_n = 2n + 1$$

$$t_f = t_x + V = 11 + 11 = 22$$

$$a_{r_0} = 11, a_r = 22, a_d = 11$$

$$\frac{22 - 11}{22 - 11} = \frac{11}{11} = 1$$

$$t_n = 2n + 1$$

$$11 = -2n + 22 \rightarrow -2n = -11 \rightarrow n = 5.5$$

$$4-1-1 = 2$$