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①

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$$(1) \quad (2) \quad (3) \quad (4) \rightarrow (F \times F) + \frac{(3 \times 4)}{2} = 22$$

$$(1 \times 1) + \frac{0 \times 1}{2} \rightarrow (2 \times 2) + \frac{(2 \times 1)}{2} \rightarrow (3 \times 3) + \frac{(2 \times 3)}{2}$$

$$a_n = n^2 + \frac{n(n-1)}{2} \rightarrow 100 + \frac{10 \times 9}{2} = 145$$

②

تعداد
(1) (2) (3) (4)

$$(1 \times 1) - \frac{(1 \times 2)}{2} \rightarrow a_n = \frac{n \times n - 1}{2} = 55 \rightarrow n(n-1) = 11$$

$$n=11$$

$$a_n = 11n - 3$$

$$11 \times 11 - 3 = 118$$

$$118 + 10 = 128$$

③

$$a_n = \frac{(-1)^n}{n} \rightarrow (-1)^1 = -1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}$$

$$\frac{1}{2} - (-1) = \frac{3}{2}$$

$$b_n = (-1)^n - v_n \xrightarrow{n=10} (-1)^{10} - v \times 10 = -27 - 11 = -38$$

$$a_n = -2n + 22 \rightarrow -2n + 22 = -38 \rightarrow -2n = -60$$

$$n = \frac{60}{2} = 30$$

$$12 = 12$$

← جواب ۲۲ ل. ۱ -

$a_{10} = a_1 + 9d$
 $a_v = a_1 + 7d$
 $a_{10} - a_v = a_1 + 9d - a_1 - 7d = 2d$
 $2d = 11$
 $d = \frac{11}{2}$
 $a_4 - a_1 = a_1 + 3d - a_1 = 3d$
 $3d = 15$
 $d = 5$
 $a_4 - a_1 = 15$
 $a_v - a_1 = a_1 + 7d - a_1 = 7d$
 $7d = 35$
 $d = 5$
 $a_4 = 15$
 $a_v = 35$
 $a_1 = 10$
 $a_4 - a_1 = 15 - 10 = 5$
 $a_v - a_1 = 35 - 10 = 25$
 $d = 5$

$$a_1 = 1^N, a_1^N = a_1 + 1d \Rightarrow 1^N + 1 = 11 \rightarrow \begin{matrix} +1 \\ \overbrace{1^N + 1}^{11} \end{matrix} \quad \begin{matrix} t_1 & t_r \\ \Rightarrow & \end{matrix} \quad \boxed{t_n = 1n - \omega}$$

$$t_n = \frac{1}{0} \oplus \frac{1}{1} \oplus \frac{1}{2} \oplus \frac{1}{3} \oplus \frac{1}{4} \oplus \frac{1}{5} \oplus \dots$$

$$t_n = \frac{fn - 1}{pn + 1} \Rightarrow \frac{fn - 1}{pn + 1} < \frac{1}{p} \Rightarrow fn - 1 < \frac{pn + 1}{p}$$

$0, 4, 9, 9, 4, 0, \dots$
 $\underbrace{\quad}_{-1^0} \quad \underbrace{+1^1}_{+1} \quad \underbrace{+1^2}_{+1} \quad \underbrace{-1^3}_{-1} \quad \underbrace{-1^4}_{-1}$
 $\underbrace{\quad}_{-1^0} \quad \underbrace{\quad}_{-1^1} \quad \underbrace{\quad}_{-1^2} \quad \underbrace{\quad}_{-1^3}$
 $a = \frac{-1^0}{1} = -1, 0$
 $C = 0$
 $An^r + Bn + \cancel{C} \Rightarrow -1, 0 n^r + Bn \rightarrow$
 $-1, 0 + B = 4$
 $B = 4, 0$
 $T_n = -1, 0 n^r + 4, 0 n$

$$w_A + \Delta B \Rightarrow -1.0 \times 10^3 + 2 \times 510 = -1.0 + 1020 = 1019$$

$$t_n = -\frac{y}{r} - \frac{y}{r^2} - \frac{y}{r^3} - \dots$$
$$a = \frac{y}{r} = 1$$
$$c = -y$$
$$an^r + bn + c \rightarrow n^r + bn - y \xrightarrow{n=1}$$
$$1 + b - y = -y$$
$$\text{dn}$$

$t_n: n^2 - n - 4$

$$a_n = a_1 + (n-1)d \Rightarrow 28 + (n-1)0 \Rightarrow 28 + 0n - 0 = 21 + 0n$$

$$n^2 - n - 4 = 21 + 0n$$

$$n^2 - 4n - 25 = 0$$

$$(n-9)(n+5) = 0$$

$$\begin{array}{l} \nearrow n=9 \\ \searrow n=-5 \text{ غير صحيح} \end{array}$$

$$21 + 0 \times 9 = \boxed{21}$$

$$21 - 9 - 4 = \boxed{-2}$$