

Subject :

۲۰

میکروسکوپ

$$a_n = n^2 + \frac{n(n-1)}{2}$$

۵ ①

$$a_{10} = 100 + \frac{10 \times 9}{2} = 145$$

۰, ۰, ۱, ۳, ۶, ...
ω_۱

$$a_n = \frac{1}{2}n^2 - \frac{1}{2}n$$

۵ ②

$$\omega_n = \frac{1}{2}n(n-1) \leadsto n=11$$

۰, ۱, ۳, ۶, ...

$$a_n = 11n - 3$$

۵ ③

$$a_{11} = 111 - 3 = 108$$

۰, ۹, ۱۳, ...

$$a_n = 5n + 1$$

$$a_{11} = 55 + 1 = 56$$

$$56 + 108 = 164$$

$$a_1 = \frac{-1}{1} = -1 \quad \frac{1}{2} + 1 = \frac{3}{2}$$

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

۵ ④

$$b_n = (-1)^n - 11 = -51$$

۵ ⑤

$$-51 = -2n + 11 \leadsto n=13$$

$$a_v + \mu d = a_{10} \leadsto \mu d = 1\mu$$

$$d = \varepsilon$$

(5) (ε)

$$a_1 + \omega d = a_7 \leadsto \omega d = 60$$

$$\begin{aligned} a_v &= v \\ a_\varepsilon &= 1\omega \end{aligned} \quad \left. \begin{aligned} a_v + \mu d &= a_\varepsilon \\ \mu d &= 1\omega \end{aligned} \right\}$$

(6) (v)

$$d = \varepsilon \rightarrow a_1 + \mu = v$$

$$a_1 = \mu$$

$$a_{1\mu} = v + \varepsilon = 11$$

$$B = \mu, 11, \dots$$

$$b_n = 11n - \omega$$

$$t_n = \frac{\mu}{\omega}, \frac{9}{v}, \frac{10}{9}, \frac{1\varepsilon}{11}, \frac{11}{1\mu}, \frac{22}{1\omega}, \frac{34}{1v}, \frac{46}{19}, \frac{58}{\mu 1}, \frac{70}{\mu \mu}$$

$$\boxed{MOQ}$$

$$\frac{11n - \mu}{11 + \mu} < \frac{\mu}{\mu}$$

$$(11n + 9) > 11n - \varepsilon$$

$$1\mu > 11n$$

$$9, \omega > n$$

$$t_n = 4, 9, 9, 4$$

$$\begin{aligned} &\underbrace{4\mu}_{+1\mu} + \underbrace{9\omega}_{+0} - \underbrace{\mu}_{-1\mu} - \underbrace{\mu}_{-1\mu} \end{aligned}$$

$$a_n = \underbrace{-\frac{\mu}{v}}_A n^2 + \underbrace{\frac{1\omega}{v}}_B n$$

(7) (9)

$$\mu A + \omega B = \mu \times \frac{-\mu}{v} + \omega \times \frac{1\omega}{v} =$$

$$\frac{-9}{v} + \frac{v\omega}{v} = \frac{44}{v} = \mu\mu$$

$$a_r + r d = a$$

$$r d = 10$$

$$d = 10$$

$$a_1 + d = 11$$

$$a_1 = 1$$

$$T_n = \frac{a_1 + a_n}{2} \cdot n$$

$$= \frac{1 + a_n}{2} \cdot n$$

$$a_n = n^2 - 1 - n$$

$$n^2 - 1 - n = 1 + 10n$$

$$n^2 - 1 - n = 11$$

PARAMOUNT

$$n = 9$$

$$a_9 = 1 + 1 \times 10 = 11$$