

الف)

$$a_{10} = \frac{1}{r} \times r^9 = r^8 = \underline{\underline{256}}$$

$$\frac{a_{1k}}{a_{1n}} = \frac{\frac{1}{r} \times r^{14}}{\frac{1}{r} \times r^{11}} = \frac{r^{14}}{r^{11}} = r^3 = \boxed{19}$$

(ب)

$$b^r = \alpha c \Rightarrow b^r = \alpha_\varepsilon \times q_1 = \alpha, q^w \alpha, q^q = \frac{1}{r} \times r^w \times \frac{1}{r} \times r^q \quad (2)$$

$$b \in r^1 \rightarrow b \in r^2 \rightarrow |b \in r^2|$$

$$a_1 q^{n-1} = 121 \rightarrow \frac{1}{r} \times r^{n-1} = 121 \rightarrow r^{n-1} = 121 \rightarrow r = 11 \rightarrow r^{n-1} = 11^1$$

$$\rightarrow n-1 = 1 \rightarrow \boxed{n = 2}$$

$$a_0 = 12 \quad \left. \begin{array}{l} \\ a_1 = 99 \end{array} \right\} \frac{99}{12} \approx 8.25 \rightarrow Q = 8 \rightarrow a_1 = a_1 \times d = 99 \times 8 = 792 \quad (1)$$

$$a_1 \times a_p \times a_r \times a_s \times a_d = r \varepsilon \nu^a$$

$$\frac{a_r}{a_r} \quad \frac{a_r}{a_r} \quad \frac{a_r}{a_r} \quad \frac{a_r}{a_r}$$

$$\rightarrow \alpha_{\mu}^2 = \kappa^2 \Rightarrow \sqrt{\alpha_{\mu}^2 \kappa^2}$$

$$a_1 \times a_2 = \boxed{a^p \times a^p = 9}$$

$$\frac{\sqrt{r}}{r^6} = \frac{r^{\frac{1}{2}}}{r^6} \rightarrow \frac{r^{\frac{1}{2}-6}}{1} = r^{-\frac{11}{2}} = r^{-5.5} = r^{-5} \cdot r^{-0.5} = \frac{1}{r^5 \sqrt{r}} \quad (\Sigma)$$

$$\frac{a+b}{x} < \frac{y}{x} \Rightarrow \sqrt[4]{1,2 \text{ nicht}}$$

$$a_0, a_1, a_2 \rightarrow b = ac \rightarrow n = (1-n)(n+1)$$

$$\xrightarrow{\Sigma \otimes \Sigma} n^r = 1 - m^r \rightarrow r n^r \geq 1 \rightarrow n^r \geq \frac{1}{r} \rightarrow \boxed{n \geq \frac{1}{r}}$$

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$$a_1 + a_2 = a_1 + a_1 q^r \rightarrow a_1 (1 + q^r) = (1+q)(q^r + 1 - q) \quad (9)$$

$$a_r + a_{r+1} = a_r q + a_r q^r \rightarrow a_r q (1 + q)$$

$$\rightarrow \frac{v_1}{1r} = \frac{a_1 (1+q)(q^r + 1 - q)}{q \cdot q (1+q)} = \frac{v_1 q^r + 1 - q}{q}$$

$$\rightarrow vq = 1q^r + 1 - q \rightarrow \text{degre } -1q^r + 1 \cdot q - 1 = 0$$

$$\rightarrow q^r + 1 \cdot q + 1 = 0 \rightarrow (q+1)(q+1) \rightarrow q^2 - 1$$

$$\frac{-1}{-1} \rightarrow 1 \rightarrow a_1 + a_2 = 1r \rightarrow a_1 + r v a_1 = 1r \rightarrow a_1 (1 + r v) = 1r$$

$$\frac{-1}{-1} \rightarrow \frac{1}{r} \rightarrow a_1 + a_2 = 1r \rightarrow \frac{1}{r} a_1 + \frac{1}{r} a_1 = \frac{1}{r} a_1 (1 + r v) = 1r$$

$$\frac{1}{r} a_1 (1 + r v) = 1r \rightarrow a_1 (1 + r v) = 1r^2$$

$$a_1 + a_r + a_{r+1} = 1r \rightarrow \frac{a_1}{q} + a_r + a_r q = \frac{a_1}{q} + r + r q = 1r \quad (v)$$

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$$\rightarrow \frac{r}{q} + r + r q = 1r \rightarrow r q^r + r q + r = 1r q \rightarrow r q^r + 1 \cdot q + r = 0$$

$$\rightarrow q^r - 1 \cdot q + 1 \rightarrow (q-1)(q-1) \rightarrow q = 1 \text{ or } q = r$$

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$$s_1 = a_1 \left(\frac{q^n - 1}{q - 1} \right) = r \times \left(\frac{r^n - 1}{r - 1} \right) = r^n - 1 \quad (الف) \quad (A)$$

$$a_1 \times a_1 q + a_1 q^r \times \dots \times a_1 q^r$$

$$= (a_1)^n \times q^{\frac{n \times 1}{r}} = \frac{r^n \times r^{n \times \frac{1}{r}}}{r^n}$$

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ادرس بوسلطان

$$a_1, a_r, a_r, a_r, \dots$$

(9)

$$(a_r - a_1), (a_r - a_r), (a_r - a_r), \dots$$

$$(a_r - a_r)^r = (a_r - a_1)(a_r - a_r)$$

$$(a_r)^r + (a_r)^r - r a_r a_r = a_r a_r - a_r a_r - a_r a_r + a_r a_r$$

$$a_r^r + a_r^r = a_r^r - a_r^r + a_r^r$$

هذا انما على غلط من طرفي

$$a_1, a_r, a_r, \dots$$

(9)

$$(a_r a_1), (a_r a_r), (a_r a_r), \dots$$

$$a_1(q-1), a_1 q(q-1), a_1 q^2(q-1) \rightarrow |q-1|$$

$$S_n = \frac{n}{2} (2a_1 + (n-1)d)$$

(ما الف)

$$a_1 + a_r + a_r + \dots + a_n = a_1 + a_1 + d + a_1 + 2d + a_r + \dots + a_1 + (n-1)d$$

$$2a_1 + a$$

ابم

$$S_n = a_1 + a_r + a_r + \dots + a_n = a_1 + a_1 q + a_1 q^2 + \dots + a_1 q^{(n-1)}$$

(ب)

$$\rightarrow S_n q = a_1 q + a_1 q^2 + a_1 q^3 + \dots + a_1 q^n$$

$$\rightarrow a q^n - a = q S_n - S_n \rightarrow a q^n - a = S_n (q - 1)$$

$$\rightarrow a (q^n - 1) = S_n (q - 1) \rightarrow S_n = \left(\frac{q^n - 1}{q - 1} \right) a$$

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