

$$a + aq + aq^2 = 11$$

$$a \times aq + aq^2 = 44 \rightarrow a^2 q^2 = 44 \rightarrow aq = 4 \rightarrow a = \frac{4}{q}$$

$$\frac{4}{q} (1 + q + q^2) = 11 \rightarrow 4 + 4q + 4q^2 = 11q \rightarrow 4 - 11q + 4q^2 = 0 \rightarrow 4q^2 - 11q + 4 = 0 \rightarrow (q - 1)(4q - 4) = 0$$

$$\rightarrow aq = \frac{4}{q} \checkmark$$

$$\frac{14}{4} = 4 \quad \text{O O I}$$

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$$x^2 + 4x + 4 = (x+2)^2 \rightarrow x^2 + 4x + 4 = 1 \rightarrow x^2 + 4x + 3 = 0 \rightarrow x^2 + 3x + 2 = 0 \rightarrow (x+1)(x+2) = 0$$

$$\rightarrow (x+1)(x+2) = 0 \rightarrow x = -1 \text{ or } x = -2$$

$$a = \frac{1}{x} \rightarrow a = -1 \text{ or } a = -\frac{1}{2}$$

$$a \left(\frac{q^n - 1}{q - 1} \right) \rightarrow 1 \left(\frac{\frac{1}{2} - 1}{\frac{1}{2} - 1} \right) \rightarrow \frac{\frac{1}{2} - 1}{\frac{1}{2} - 1} = 1 \left(\frac{-\frac{1}{2}}{-\frac{1}{2}} \right) \rightarrow \frac{1}{2} \times 1 \rightarrow \frac{1}{2}$$

$$a = 244$$

$$1 + q + q^2 + q^3 = \frac{121}{11} \rightarrow a(1 + q + q^2 + q^3) = 11 \rightarrow a = 11$$

$$\rightarrow \frac{121}{11} \times 244 = 244$$

$$d \cdot \frac{b-a}{n+1} \rightarrow \frac{44-1}{4} = 10.75$$

$$a + (n-1)d \Rightarrow 1 + 3 \cdot 10.75 = 32.25 \quad A$$

$$q^{n+1} \cdot \frac{b}{a} \rightarrow q^4 = 44 \rightarrow q = \sqrt[4]{44}$$

$$aq^{n-1} = 7 \rightarrow aq^3 = 7 \times 7 = 49 \quad B$$

$$2r, 2 + 1 = 3, 2$$

$$2r, 2 - 1 = 1, 2$$

$$-24, -\frac{10}{4}, \dots$$

$$-24, 10 - (-24) = 34 \rightarrow 34 \times 10$$

$$0 + (n-1)d \rightarrow -24 \left(10 \times \frac{1}{4} \right) = -24 + 24 = 0$$

$$aq^v = 1$$

$$a = 121$$

$$\frac{1}{121} = q^v \rightarrow q = \frac{1}{11}$$

$$(a+rd)^r = (a+rd)(a+rd) \rightarrow a^r, r a c d + r a d^r = a^r, r a d + r a d + r a d^r \rightarrow r a d + r a d^r = 0$$

$$L \rightarrow a d + r a d^r = 0 \rightarrow d(a + r a d) = 0 \rightarrow d = 0$$

$$d = \frac{a}{10}$$

$$a+d, a+rd, a+vd$$

$$b = \frac{1}{\epsilon}$$

$$(a+rd)^r = (a+rd)(a+vd) \rightarrow -rad + rd^r = 0 \rightarrow d(-a+d) = 0 \rightarrow d = 0 \text{ or } d = a \checkmark$$

$$b q^q ?$$

$$a+d = ra \rightarrow ra = \frac{1}{\epsilon} \quad a = \frac{1}{n}$$

$$b q^q = \frac{1}{\epsilon} \times r^q = 1.511$$

$$q = \frac{b_r}{b_i} = \frac{a_r}{a_i} \rightarrow \frac{a+rd}{ra} \rightarrow \frac{\frac{1}{n} + \frac{r}{n}}{\frac{1}{\epsilon}} = r$$

$$r a_r, r b_r, b_r$$

$$r b q, r b q^r, b q^r$$

$$r(r b q^r) = r b q + b q^r \rightarrow r b q^r = r b q + b q^r \rightarrow q^r - \epsilon q^r + r q = 0 \rightarrow q(q^r - \epsilon q + r) = 0 \rightarrow q(q-r)(q-1) = 0$$

$$\rightarrow q = 0 \text{ or } q = 1 \text{ or } q = r$$

$$r, \frac{v}{\epsilon} \rightarrow r, 1, v a \rightarrow d = -r a$$

$$a = r$$

$$a+rd, a+vd, a+rd \rightarrow a+rd+b, a+vd+b, a+rd+b$$

$$(a+vd+b)^r = (a+rd+b)(a+rd+b)$$

$$\frac{1}{n} + b + \frac{b}{r} = b^r, b - 1, r a + \frac{b}{\epsilon} \rightarrow \frac{1}{n} + \frac{b}{r} = -1, r a + \frac{b}{\epsilon} \rightarrow \frac{b}{\epsilon} = \frac{-a}{\epsilon} - \frac{1}{n} \rightarrow \frac{b}{\epsilon} = \frac{-10-1}{n} \rightarrow \frac{b}{\epsilon} = \frac{-11}{n}$$

$$11b = -\epsilon \epsilon \rightarrow b = -a, 10 \quad a_r = -\epsilon, r a \quad a_{rr} = -1 - a, 10 = -4, 10 \quad \frac{a q^r}{a q^r} + q^q = \frac{-4, 10}{-1, 10} = 1, 10$$

$$a + a q^r + a q^q = v r \rightarrow a(1 + q^r + q^q) = v r$$

$$b + b + d + b + q d = r b + 10 d = v r$$

$$\left. \begin{aligned} d = a q^r - a &\rightarrow a(q^r - 1) \\ q d = a q^q - a &\rightarrow a(q^q - 1) \end{aligned} \right\} q q^r - q = q^q - 1 \rightarrow q^r - q q^q + 1 = 0 \rightarrow (q^r - 1)(q^q - 1) = 0 \rightarrow q^r = 1 \rightarrow \pm \sqrt{n}$$

$$q^q = 1 \rightarrow q = \pm 1$$

$$d = a(d^r - 1) = a(1 - 1) \rightarrow \forall a = d \rightarrow (1 \times 1) - 1 = 0$$

$$q = 1 \rightarrow d = 0$$

or