

المطلوب

أشياء على 19

$$\frac{a}{r} + a + ar = 21$$

$$\frac{a}{r} \times a \times ar = a^3 = 27 \Rightarrow a = 3$$

$$a + ar + ar^2 = 21$$

$$21 \times r : 3 + 3r + 3r^2 \Rightarrow 3r^2 - 11r + 3 = 0$$

$$\frac{11 \pm \sqrt{121 - 36}}{2}$$

$$r = \frac{1}{3}$$

$$\frac{1}{3} \Rightarrow \frac{1}{3}$$

$$\frac{11 \pm \sqrt{121 - 36}}{2} = \frac{11 \pm \sqrt{85}}{2}$$

$$x^2 + 5, 2x, x^2 - 2$$

$$q = \frac{1}{r}$$

$$a \times \frac{q^2 - 1}{q - 1} = 1 \times \frac{\frac{1}{18} - \frac{121}{18}}{\frac{1}{3} - \frac{1}{3}} = 24$$

$$1, 5, 2$$

4.5

$$(x^2 + 5)(x^2 - 2) = 5x^2$$

$$x^4 - 2x^2 + 5x^2 - 10 = 5x^2$$

$$x^4 - 2x^2 - 10 = 0$$

$$(x^2 - 5)(x^2 + 2) = 0$$

في
المحل

$$(x - \sqrt{5})(x + \sqrt{5})(x^2 + 2) = 0$$

$$x = \pm \sqrt{5}$$

$$\frac{1(1 - (\frac{1}{3})^2)}{1 - \frac{1}{3}} = \frac{12}{2} = 6$$

$$a, aq, aq^2, aq^3, aq^4$$

$$a = 256$$

$$a(1 + q + q^2 + q^3 + q^4) = ?$$

$$256 \times \frac{121}{25} = 1280$$

$$1, A, 4, 9$$

$$\frac{45-1}{4} = \frac{9 \times 5}{4} = 11.25$$

$$a + 3d = 1 + 1.1 \times 5 = 11.5$$

$$1, q, q^2, q^3, q^4, q^5$$

$$1 + 11.5 = 12.5$$

$$q^2 = 1 \times 4$$

$$q^2 \rightarrow 1$$

$$q = 2$$

$$-2\varepsilon, -\frac{90}{\varepsilon}, \dots$$

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$$d = -\frac{90}{\varepsilon} + 2\varepsilon \rightarrow -\frac{9d + 90}{\varepsilon}$$

$$d \left(\frac{1}{\varepsilon} \right)$$

5

$$a_1 + 1 \dots d = \boxed{1}$$

$$= 2\varepsilon + 1 \dots \times \frac{1}{\varepsilon}$$

$$128 / a_1 / \dots$$

$$q^r \times 128 \times 1 = \frac{1}{128}$$

10

$$q = \frac{1}{128}$$

$$a_1, a_2, a_3 \rightarrow$$

$$\frac{1}{128}$$

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$$(a+rd)/(a+rd)/(a+rd)$$

$$rad + r.d^2 = 0$$

15

$$b^2 = ac$$

$$rd(a+1.d) = 0 \rightarrow d = 0 \checkmark$$

چون از متغیر بین صفر نه است

$$\rightarrow d = \frac{-a}{r} \checkmark$$

پس $d = 0$ هم قابل قبول است!

$$(a+rd)^2 = (a+rd)(a+rd)$$

$$(-1.d+rd)/(-1.d+rd)/(-1.d+rd)$$

$$-rd/-rd/-rd$$

20

$$\frac{1}{r}$$

$$d = 0 \checkmark$$

$$a \times d^2$$

$$a \times r^2$$

$$a_1/a_2/a_3$$

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$$a_1 = \frac{1}{\varepsilon}$$

$$(a+d), (a+rd), (a+rd)$$

$$\frac{1}{128}$$

25

$$b^2 = ac$$

$$(a+rd)^2 = (a+d)(a+rd) \Rightarrow a = cb$$

PAYCO

$$rd, rd, rd$$

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$$r_{at} / r_{an} / a_f$$

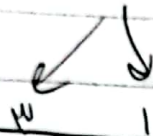
$$r_{aq} / r_{aq}^r / aq^w = \Delta$$

$$b = \frac{a+c}{r} \rightarrow \epsilon aq^r = aq^r + r aq$$

$$aq(\epsilon q) = aq(q^r + r) \rightarrow \epsilon q = q^r + r \rightarrow q^r + r = \epsilon q$$

$$\Delta = \epsilon$$

$$n = \frac{\epsilon \pm \sqrt{\epsilon}}{r}$$



$$\frac{1w}{\epsilon} + aq \frac{q}{\epsilon} + aq1 + a$$

$$\left(\frac{q}{\epsilon} + a\right)^r = aL$$

$$\frac{a1}{14} + a^r + \frac{q}{r} a =$$

$$\frac{11}{14} - \frac{1w}{6} = \frac{1v}{\epsilon} a - \frac{q}{r} a$$

⊗

$$-\epsilon q - a1 - q1r0$$

$$q = 1, r0$$

$$a, r, a1r^w, a1r^r, v, w$$

$$a(1 + r^w + r^r) = v, w$$

$$a1r^w = \frac{a1 + r^r + a1}{r}$$

$$ar - a1 = br - b1 = d$$

$$av - a1 = b1 - b1 = qd$$

$$\frac{a(q^r - 1)}{a(q^r - 1)} = \frac{d}{qd} \rightarrow q^r + 1 = q \rightarrow q = r \text{ ①}$$

$$a + aq^r + aq^r = a + ra + qa = v^ra \rightarrow a = 1$$

$$ar - a1 = d \rightarrow (1 \times r) - 1 = v \rightarrow d = v$$

$$\textcircled{P} q = 1 \rightarrow ra = vr \rightarrow a = \frac{vr}{r}$$

$$d = \frac{vr}{r} - \frac{vr}{r} = 0$$

* دوست مہمان صاحبی صوبہ ۷ اہل

$$1 \square \square \overset{A}{\square} \square \square \rightarrow 4r$$

$\rightarrow ar$

$$a_1 + 4d = ar \rightarrow 4r = 1 + 4d \rightarrow 4d = 4r \rightarrow d = 1, \Delta$$

$$ar = a_1 + 4d \rightarrow ar = 1 + 4(1, \Delta) = 5, \Delta \quad A = 5, \Delta$$

$$1 \square \square \overset{B}{\square} \square \square \rightarrow 4s$$

$$1 \times q^4 = 4s \rightarrow q = \pm 2$$

$$\text{if } q = 2 \rightarrow B = 1 \times 2^4 = 16$$

$$\text{if } q = -2 \rightarrow B = 1 \times (-2)^4 = 16$$

$$\rightarrow A + B = 5 + 16 = 21$$

$$(ar)(ar) = (ar)^2$$

$$(a + d)(a + rd) = (a + rd)^2$$

$$\cancel{a^2} + rad + rd^2 = \cancel{a^2} + 4ad + 4d^2$$

$$rad = rd^2 \xrightarrow{\text{dividing by } d} a = d$$

$$ar, as, an$$

$$ra \xrightarrow{\times 2} sa \xrightarrow{\times 2} na \rightarrow q = 2 \rightarrow a_1 = a \times q^9 = \frac{1}{\epsilon} \times 2^9 = 128$$