

subject :

date :

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$$\frac{1}{r} \times r^r$$

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

(الف)

$$\frac{\frac{1}{r} \times r^{14}}{\frac{1}{r} \times r^{14}} = r^5$$

10. 25

(ب)

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

(ج)

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

$$b = \pm \sqrt{ac}$$

$$\frac{1}{r} \times r^n = r^n$$

(د)

$$\frac{r \times r^q}{10 \times r} = b = \pm \sqrt{r^q}$$

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$$\frac{q_1 \times r^r}{q_1 \times r^r} = r$$

$$\frac{q_1 \times r^r}{q_1 \times r^r} = \frac{q_2}{r}$$

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$$r^r = r$$

$$r = r$$

$$\frac{10}{10} \times r^q = 19r \quad r^r = r$$

r = r

$$q_1 \times 19 = 1r$$

$$(10r)^n = (ar)^a = r^a$$

$$ar = r$$

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$$a_1 \times a_a = q \times r = q$$

$$(r\sqrt{r})^r = r^a \times r^b$$

$$14 \times r$$

$$r^r = r^a \times r^b$$

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$$r^r = r$$

$$\frac{a}{a+b} = \frac{r}{r}$$

$$r+1 \quad r \quad 1-r$$

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$$a_r \times a_v \times a_{11}$$

$$(1-r)(r+1) = r^r$$

$$\begin{cases} a_1 + aq^r = r \\ aq + aq^r = 1r \end{cases}$$

$$\frac{a(1+q^r)}{aq(1+q)} = \frac{(1+q)(1+q^r - q)}{(1+q)q} = \frac{1+q^r - q}{q}$$

$$\frac{v}{w}$$

$$\frac{10 + \sqrt{49}}{4} \left(\frac{1}{4} \right) \Delta = r^r$$

$$\begin{aligned} q + arv &= r \\ a(1+rv) &= r \rightarrow a_1 = 1 \\ a + \frac{1}{rv} a &= r \\ a \left(\frac{rv}{rv} \right) &= a_1 = rv \end{aligned}$$

max notebook

$$\frac{rv}{q} / \frac{w}{1} \quad \frac{1}{1} / \frac{w}{q} / \frac{rv}{rv}$$

subject:

$$\frac{a}{r}, ar, ar^2$$

$$\frac{a}{r} \times ar \times ar^2 = a^3 = r^3 \Rightarrow a = r$$

:V.C)

$$\frac{r}{r}, r, r^2$$

$$\frac{r}{r} + r + r^2 = 1^3$$

$$r + r^2 + r^3 = 1^3$$

$$a_1 = r$$

$$a_n = r$$

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

:A.C)

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

$$a_1 \times a_n)^{\frac{n}{r}} =$$

$$r + r \times r + r \times r^2$$

$$aq = a$$

$$aq^r = aq$$

$$aq^{r^2} = aq^r$$

$$\left. \begin{array}{l} aq = a \\ aq^r = aq \\ aq^{r^2} = aq^r \end{array} \right\} \text{similarly} \rightarrow (aq - a)(aq^r - aq) = (aq^r - aq)^r$$

:9.C)

$$a, aq, aq^r, \dots, aq^{n-1} \rightarrow (aq - a), (aq^r - aq), (aq^{r^2} - aq^r), \dots, (aq^{n-1} - aq^{n-2})$$

$$a(a-1), aq(aq-1), aq^r(aq^r-1), \dots$$

$$aq^{n-1}(aq-1)$$

$$(q-1) [a, aq, aq^r, \dots, aq^{n-1}]$$

$$q \quad q \quad q$$

$$\frac{a(1+q+\dots+q^{n-1}) \times (q-1)}{(q-1)} = \frac{a(q^n-1)}{q-1}$$

:1.C)

$$(q-1)(a^r + a^{r+1}) = a^{r+1} - a^r$$

$$(a^n - 1) = (a-1)(a^{n-1} + a^{n-2} + \dots + a + 1)$$

$$1^h \times a)$$

$$a_1 + a_r + a_{r^2} + \dots + a_n$$

$$a_n + a_{n-1} + a_{n-2} + \dots + a_1$$

$$n(a_1 + a_n) = \frac{n}{r}(a_1 + a_n)$$

$$a + aq + aq^r + \dots + aq^{n-1}$$

$$\hookrightarrow \frac{a(1+q+q^r+\dots+q^{n-1}) \times (q-1)}{q-1} = \left(\frac{a^n-1}{q-1} \right) a$$