

a b c

(1)

$$b^2 = 4c$$

$$b = c$$

$$\frac{1}{q} + c + 4c = 11$$

$$cq + \frac{c}{q} = 11$$

$$cq^2 - 11q + c = 0$$

$$q = \frac{+1 \pm \sqrt{14}}{c} \quad q \neq 11 \Rightarrow q = \frac{1}{c}$$

$$(n^2 - 2)(n^2 + c) = (2m)^2$$

(2)

$$cn^2 + 2m^2 - 2 = cn^2$$

$$cn^2 - 2m^2 - 2 = 0 \quad \Delta, \epsilon, \gamma, \dots$$

$$(n^2 - 2)(n^2 + c) = 0$$

$$n^2 = 2 \pm \sqrt{4 - 4c}$$

$$n = \pm 2$$

$$-14 \left(\frac{1}{c^2} - 1 \right) = 14 - \frac{1}{c^2} = \frac{14c^2 - 1}{c^2}$$



$$a + aq + aq^r + aq^r + aq^{\varepsilon} = \quad (r)$$

$$a(1 + q + q^r + q^r + q^{\varepsilon}) = \cancel{r\varepsilon^r} \times \frac{1r1}{1, 2r} = r4r$$

$$\frac{4\varepsilon+1}{r} + \sqrt{4\varepsilon} = r11\Delta + \Lambda = r910 \quad (\varepsilon)$$

$$A = \frac{4\varepsilon+1}{r}$$

$$B = \sqrt{4\varepsilon}$$

(d)

$$\frac{-94}{\varepsilon}, -\frac{92}{\varepsilon} \quad d = \frac{1}{\varepsilon}$$

$$t_n = \frac{n}{\varepsilon} - \frac{9v}{\varepsilon}$$

$$t_{1,1} = \frac{101}{\varepsilon} - \frac{9v}{\varepsilon} = \frac{\varepsilon}{\varepsilon} = 1$$

$$1r, a_r$$

$$aq^v = 1 \rightarrow 1r \times q^v = 1 \quad q = \frac{1}{r}$$

$$(a+rd) \quad (a+4d) \quad (a+nd) \quad \textcircled{4}$$

$$(a+rd)(a+nd) = (a+4d)^r$$

$$\cancel{a^r} + 1 \cdot da + 1 \cdot nd^r = \cancel{a^r} + r \cdot 4d^r + 1 \cdot rda$$

$$rd = r \cdot d^r - rda$$

$$0 = 1 \cdot d^r - da$$

$$d = \frac{+a \pm \sqrt{ar}}{r_0}$$

$$d = \frac{+a \pm |a|}{r_0} = \pm \frac{a}{r_0}$$

$$(a+d) \quad (a+rd) \quad (a+vd) \quad \textcircled{v}$$

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

$$\cancel{a^r} + vd^r + nda = \cancel{a^r} + rd^r + rda$$

$$rda = rd^r$$

$$a = d$$

$$rd \quad \cdot \quad \varepsilon d \quad \cdot \quad nd \Rightarrow \boxed{\text{I } \heartsuit \text{ gaj}} = r \quad \cdot \quad a = aq^r, \frac{1}{r} \cdot r^r = r^v$$

$$r(ar) \quad r(ar^r) \quad (ar^r) \quad (1)$$

$$rar + ar^r = \varepsilon ar^r$$

$$ar(r+r^r) = \varepsilon ar^r$$

$$r^r - \varepsilon r + r = 0$$

$$r = +1 \pm r$$

$$ra, 1/a, rva$$

$$\boxed{d = ra}$$

(9)

$$d = -\frac{1}{r}$$

$$a_\varepsilon = r - \frac{r}{\varepsilon} = \frac{d}{\varepsilon}$$

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

$$a_{1r} = r - \frac{1r}{\varepsilon} = -1$$

$$\frac{1}{\varepsilon} + n \quad \frac{1}{\varepsilon} + n \quad -n$$

$$-nr - \frac{d}{\varepsilon} n = \frac{1}{14} + nr + \frac{1}{r} n$$

$$0 = nr + \frac{v}{\varepsilon} n + \frac{1}{14}$$

$$n = \left(\frac{1}{r} - \frac{v}{\varepsilon} \right) \cdot \frac{1}{14}$$

$$\begin{matrix} a & ar^r & ar^q \\ a_1 & a_r & a_v \end{matrix}$$

(10)

$$\frac{ar^q - ar^r}{\Delta} = ar^r - a$$

$$\frac{ar^r(r^r - 1)}{\Delta} = a(r^r - 1)$$

$$\frac{r^r}{\Delta} = 1 \rightarrow r^r = \Delta$$

$$a(1 + r^r + r^q) = vr$$

$$a(r_1) = vr$$

$$a = \frac{vr}{r_1}$$

$$a_r = \frac{r_1 \Delta}{r_1}$$

$$d = \frac{r_1 \Delta - vr}{r_1} = \frac{r_1 \Delta}{r_1} - \frac{vr}{r_1}$$

