



$$q a_1^r = \omega a_1 a + r a_1 a$$

$$\frac{a_1}{d} \rightarrow \frac{a_1 + r d}{d} = \frac{d}{d} = 1 \checkmark$$

$$r a_1 - r a_1 a = \omega a_1 a$$

$$\frac{r a_1}{\frac{r}{r} a_1} = \frac{q}{r} \checkmark$$

$$a_1 + r d = 0 \rightarrow a_1 = -r d$$

$$r a_1 (r a_1 - a) = \omega a_1 a$$

$$r a_1 + r d (r a_1 + r d - a_1) = (\omega a_1 + 1 \cdot d) a_1 \rightarrow r a_1 = \omega a_1 \rightarrow r d = r a_1$$

$$d = \frac{1}{r} a_1$$

$$r a_1^r + \frac{q a_1 d}{q a_1 d} + \frac{r a_1 d}{r a_1 d} + r d^r = \omega a_1^r + 1 \cdot d^r \rightarrow r a_1^r + 4 d^r + a_1 d = 0$$

$$\frac{1}{q} a_1 + a_1 \times \frac{1}{r} a_1 \rightarrow r a_1^r + \frac{1}{r} a_1^r + \frac{1}{q} a_1 = 0$$

$$c, b, a \rightarrow r b = a + c \rightarrow b = \frac{c+d}{a} \rightarrow a = c+d$$

$$\frac{c}{r}, \frac{a}{r}, b \rightarrow \frac{a}{r} = \frac{c b}{r} \rightarrow b = \frac{a}{r} \times \frac{r}{c} = \frac{a}{c} \times q, b = \frac{c}{r} \times q^r = \frac{a}{r} \times q^r$$

$$q \times r = r \times -1 = -r \checkmark$$

$$\frac{c+d}{b} = \frac{c}{r} \times q^r, c+d = \frac{c}{r} \times q^r \rightarrow \frac{c q^r - c}{r} = \frac{c q^r - c}{r} \rightarrow q+r=1 \rightarrow q=-1$$

$$c, b, a \rightarrow \frac{c}{q}, \frac{a}{q}, b \rightarrow \frac{c}{q} r a_1 + r b = a_1 \rightarrow b^r = a_1 c, r a_1 = b + c \rightarrow a = c q^r, r b = c + d \rightarrow d = c(r q^r - 1)$$

$$\frac{a_1}{a_1} = \frac{q^r}{a_1} = q^r = (-\frac{1}{r})^r = -\frac{1}{r^r} = -4^r = -r^{-r} \checkmark$$

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

$$\Delta = b^r - f a c = r \omega \rightarrow \frac{r \pm \sqrt{r \omega}}{x} = \frac{-1}{r} \rightarrow \frac{-1}{r} = \frac{-1}{r}$$

$$\frac{a_1}{(a_1)^r} + \frac{a_1}{(a_1)^r} = r \rightarrow \frac{a_1 q^r}{a_1^r} + \frac{q a_1}{a_1^r a_1} = \frac{q^r}{a_1^r} + \frac{q}{a_1} = r \rightarrow \frac{q}{a_1} \left( \frac{a_1}{a_1} + 1 \right) = r$$

$$\frac{a_1^r}{a_1^r} = r \frac{q \times a_1}{a_1 q} = \frac{a_1}{q}$$

$$\frac{q^r}{a_1^r} + \frac{q}{a_1} = r$$

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

$$\left( \frac{q}{a_1} + r \right) \left( \frac{a_1}{a_1} - 1 \right) = 0 \rightarrow \frac{q}{a_1} = -r$$

$$a_1^r = \sqrt{a_1} \rightarrow a_1^r = a_1 \rightarrow a_1^r = a_1^2$$

$$a_1 \omega = r v \rightarrow a_1 q^r = r v$$

$$a_1 r q^r = r v$$

$$a_1 \times \omega = r v$$

$$a_1 = \frac{r v}{\omega} = \frac{1}{r} \rightarrow \frac{1}{r} - \frac{1}{r} = \frac{r-r}{r} = \frac{1}{4}$$

$$\sqrt{a_1} q^r = r v$$

$$q^r = \frac{r v}{\sqrt{a_1}} = q^r = r v \rightarrow q = r$$