

~~Handwritten scribbles and crossed-out text.~~

$$da(a+ld) + ra(q+ld) = da^r + l ad + ra^r + rad = 1a^r + rad$$

$$ra^r + rad + qd^r = 1a^r + rad$$

$$qd^r - qd - ra^r = 0$$

$$a(a+ld) \times r + a+ld \times da = q(a+ld) \quad d = \frac{a \pm \sqrt{19a^r}}{1r} = \frac{a \pm \sqrt{a}}{1r}$$

$$q(a^r + rad + d^r) = qa^r + rad + qd^r \quad d = \frac{ra}{r} \quad q = a + r \frac{ra}{r} = a + ra = \frac{ra}{r} \quad \left(\frac{q}{r}\right)$$

$$d = \frac{a}{r} \quad a + r \left(-\frac{a}{r}\right) = -a \quad \frac{a}{d} = -\frac{a}{-\frac{a}{r}} = r \quad \left(1\right)$$

$$b - a = c - b \Rightarrow rb = a + c$$

$$\frac{c}{ra} = \frac{a}{rb} \Rightarrow a^r = bc \quad c = rb - a = r \left(-\frac{a}{r}\right) - a = -2a$$

$$\frac{a}{r} = bq \quad \frac{c}{r} = \frac{a}{r} \times q$$

$$c = rb - a$$

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

$$q = \frac{\frac{a}{r}}{\frac{b}{r}} = \frac{a}{rb}$$

$$a^r = b(rb - a) \Rightarrow rb^r - ab - a^r = 0$$

$$rq = r(-1) = -2 \quad \left(-2\right)$$

$$q = \frac{\frac{c}{r}}{\frac{a}{r}} = \frac{c}{ra}$$

$$b = \frac{a \pm \sqrt{9a^r}}{r} = \frac{a \pm 3a}{r}$$

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

$$ra - rb = c - ra$$

$$c = ra - rb$$

$$b = aq \quad c = aq^r$$

$$aq^r = ra - rb = ra - r(aq) = ra - raq$$

$$q + rq - r = 0 \quad q = \frac{-r \pm \omega}{r} \Rightarrow q = -r$$

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

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

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

$$\frac{q}{a} = \frac{aa}{(a)^r}$$

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

$$r = \frac{q^r + aq}{a^r} = \frac{q}{a} + \frac{q^r}{a^r}$$

$$ra^r = aq + q^r$$

$$\frac{a}{q} = \frac{a^r}{aq} = \frac{a^r}{a^r} \Rightarrow aq = a^r$$

$$ra^r = aq + q^r$$

$$ra^r = \frac{a^r}{2} + \frac{a^r}{2^r}$$

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

$$0 = \frac{1}{2^r} + \frac{1}{2} - r$$

$$0 = r^2 - r - 1$$

$$r = \frac{r \pm 1}{2} \quad \left(\begin{matrix} r = 1 \\ r = -\frac{1}{2} \end{matrix} \right)$$

$$a_r = \sqrt{a_f}$$

$$a_d = rV$$

$$a_r = aq^r$$

$$a_f = aq^r$$

$$a_d = aq^r$$

$$aq^r = \sqrt{a} r = \sqrt{a} \times q^{\frac{1}{r}} \quad aq^{\frac{1}{r}} = \sqrt{a} \Rightarrow q^{\frac{1}{r}} = \frac{\sqrt{a}}{a} = \frac{1}{\sqrt{a}}$$

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

$$a_d = aq^r = a \left(\frac{1}{a}\right)^r = \frac{1}{a^r} = rV$$

$$q^r = \frac{1}{rV} \Rightarrow a = \frac{1}{r}$$

$$\frac{1}{r} - \frac{1}{r} = \frac{r}{r} - \frac{r}{r} = \left(\frac{1}{r}\right)$$

f

v

h

q

1.