

$r(a+d)^r = d(a+rd)(a) + r(a+rd)(a)$ $ra^r + rd^r + r^2acd = da^r + radd + ra^r + r^2acd$ $\frac{ra^r + rd^r}{d^r} - \frac{ra^r}{d^r} = 0 \Rightarrow \frac{r}{d} + \frac{a}{d} - r = 0$ $\frac{a}{d} + \frac{a}{d} - r = 0 \quad \left(\frac{a}{d} + r \right) \left(\frac{a}{d} - r \right)$ $\hookrightarrow \frac{a}{d} - r = -r$ $\frac{a}{d} + \frac{a+rd}{d} = \frac{a}{d} + r$ $1) -r + r = 1$ $2) \frac{r}{r} + r = \frac{r}{r} + \frac{r}{1} = \frac{r}{r} = 1$	✓
$a \quad b \quad c \quad b \quad \frac{a}{r} \quad \frac{c}{r}$ $\Rightarrow rb = a + c \quad \Rightarrow \left(\frac{a}{r}\right)^r = b \times \frac{c}{r}$ $a^r = b(rb-a), rb^r = ab \quad a^r + ab - rb^r = 0$ $a = -rb \quad c = rb \quad \Delta = 4b^r \sqrt{\Delta} = rb$ $\Rightarrow b, -\frac{rb}{r}, \frac{rb}{r} \Rightarrow b, -b, b$ $q = -1 \quad rq = -r$	✓
$b^r = ac, \quad \frac{b}{c} = \frac{a}{b} \quad / \quad rb, ra, c \Rightarrow ra - rb, c - ra \Rightarrow ca - rb - c = 0$ $(fa - rb^a - \frac{b^r}{a} = 0) \quad \frac{ra^r}{a^r} - \frac{rab}{a^r} - \frac{b^r}{a^r} = 0 \quad q = \frac{b}{a} \Rightarrow f - r\left(\frac{b}{a}\right) - \left(\frac{b}{a}\right)^r = 0$ $f - rq - q^r = 0 \quad q + rq - f = 0 \quad (q+r)(q-1)$ $\frac{aq}{a^r} = \frac{aq^r}{a^r} = q^r(-f)^r = -qr$	✓
$\frac{aq^r}{d^r q^r} + \frac{aq}{a^r} = r$ $\frac{q^r}{a^r} + \frac{q}{a} = r \Rightarrow \frac{q^r}{a^r} + \frac{q}{a} - r = 0 \quad \left(\frac{q}{a} + r\right) \left(\frac{q}{a} - 1\right)$ $\frac{a^r}{aq} = \frac{q}{q} \left[\frac{1}{-1} \right]$	✓
$aq^r = \sqrt{aq^r} \quad aq^r = rv$ $a^r q^r = aq^r \quad aq = 1$ $a \times r = 1 \quad a = \frac{1}{r}$ $\frac{1}{r} - \frac{1}{r} = \frac{r}{r} - \frac{r}{r} = \frac{1}{r}$	✓