

$\omega n^p - \omega d^p$

$a_p = n \rightarrow 4n^p = \omega(q_f + d)(n - d) + 3n(n - d)$

$\rightarrow 4n^p - 3dn - \omega d^p = 0 \rightarrow n = \frac{+d \pm \sqrt{9d^2 + 4\omega d^p}}{2}$

$q_f = a_p + d \rightarrow \frac{1}{f}d + d = \frac{f\omega d}{d} \rightarrow \frac{f\omega d}{d} = \frac{f\omega}{1}$

$-d + d = d \rightarrow \frac{d}{d} = 1$

C, b, a

$b, c+d \rightarrow \frac{1}{p}d$

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

$q = -1 \rightarrow pq = -p$

$\omega \rightarrow \frac{c}{f}, \frac{a}{r}, b \rightarrow \frac{1}{p}d, \frac{1}{p}d, \frac{1}{p}d$

$\rightarrow \frac{c}{f}, \frac{c+rd}{r}, c+d \rightarrow (c+d)(\frac{c}{f}) = (\frac{c+rd}{r})^p$

$\frac{c^p}{f} + \frac{dc}{f} = \frac{c^p + rd^p + fcd}{f}$

$\frac{c^p}{f} + \frac{dc}{f} = \frac{c^p + rd^p + fcd}{f}$

$\frac{c^p}{f} + \frac{dc}{f} = \frac{c^p + rd^p + fcd}{f}$

a, b, c

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q}$

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q} \rightarrow c, ra, rb$

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q} \rightarrow \frac{a}{q}, \frac{b}{q}, \frac{c}{q}$

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q} \rightarrow \frac{a}{q}, \frac{b}{q}, \frac{c}{q}$

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q} \rightarrow \frac{a}{q}, \frac{b}{q}, \frac{c}{q}$

$\frac{a}{q}, \frac{b}{q}, \frac{c}{q} \rightarrow \frac{a}{q}, \frac{b}{q}, \frac{c}{q}$

$\frac{a_1 q^w}{(a_1 q)^p} + \frac{a_1 q}{(a_1)^p} = p \rightarrow \frac{q^p}{a_1^p} + \frac{a_1 q}{a_1^p} = p \rightarrow a_1 q + q^p = p a_1^p$

$a_1 q + q^p - p a_1^p = 0$

$q = \frac{-a_1 \pm \sqrt{a_1^2 + 4a_1^p}}{2}$

$\frac{a_1^p}{a_1^p} = 1$

$\frac{a_1^p}{-p a_1^p} = -\frac{1}{p}$

$a_d = pV$

$a_p = a_f \rightarrow a_p^p q^p = \frac{pV}{q} \rightarrow \left(\frac{pV}{q^p}\right)^p = \frac{pV}{q} \rightarrow pV q^p = pV^p$

$a_p = \frac{pV}{q^p}$

$q = \frac{a_d}{q^p} = \frac{pV}{q^p} \rightarrow \frac{1}{q^p} = \frac{1}{pV}$

$\frac{1}{q^p} = \frac{1}{pV} \rightarrow \frac{1}{q^p} = \frac{1}{pV}$