

$$y(a+rd)^r = da(a+rd) + wa(a+rd)$$

$$y(a^r d^r + r a d) = da^r + wa^r + r a d$$

$$r a^r d + r a d = 1 a^r + 1 w a d$$

$$r a^r - r d = a d = 0$$

$$\frac{t_f}{d} = \frac{a + r d}{d}$$

$$y \rightarrow a, b, c$$

$$a, a, d, a + r d$$

$$y \rightarrow b, \frac{a}{r}, \frac{c}{f}$$

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

$$r = \frac{\frac{a}{r}}{b} = \frac{a}{a + r d} = \frac{\frac{a}{r}}{a + \frac{a}{r}} = -1$$

$$r r = -r$$

$$\frac{t_f}{t_s} = \frac{a r^r}{a r d} = r^r = (-r)^r = -r$$

$$r b, r a, c$$

$$\rightarrow r a r, r a, a r^r$$

$$r a = r a r + a r^r \rightarrow r a = a (r r + r^r) \rightarrow r^r + r r - r = a r$$

$$r = -r$$

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

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

$$\frac{r}{a} + \frac{r}{a} = r \rightarrow r \left(\frac{r}{a} \right) = r$$

$$\frac{a^r}{a r} = \frac{a}{r} = \frac{1}{\frac{r}{a}} = \frac{1}{r} \text{ (1)}$$

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

$$t_r = \sqrt{t_f}$$

$$a r^r = a r^r$$

$$a r^r = a r^r$$

$$\rightarrow a r = 1$$

$$t_d = a r^r = r r$$

$$a r^r \times r^r = r r \rightarrow r^r = r r$$

$$\rightarrow r = r$$

$$t_r = a r = 1$$

$$t_1 = \frac{1}{r}$$

$$\frac{1}{r} - t_1 = \frac{1}{r} - \frac{1}{r} = \frac{r - r}{r} = \frac{1}{r} \text{ (1)}$$