

$$S_0 = \frac{\partial}{\partial r} (r a_1 + f d) = \omega a_1 + 1 \cdot d$$

$$\omega a_1 + 1 \cdot d = \frac{1}{r} (\omega a_1 + r \omega d)$$

$$\omega a_1 + 1 \cdot d = \frac{\omega a_1 + r \omega d}{r}$$

$$\omega a_1 + 1 \cdot d = \frac{\omega}{r} a_1 + \frac{r \omega}{r} d$$

$$\frac{1 \cdot \omega}{r} a_1 - \frac{\omega}{r} a_1 = \frac{r \omega}{r} d - \frac{r \omega}{r} d \quad \frac{1}{r} a_1 = \frac{\omega}{r} d \quad r a_1 = \omega d$$

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

$$a_r = a_1 + d = \frac{\omega d}{r}$$

$$a_1 = a_r = \frac{\omega d}{r}$$

$$\frac{\omega d}{r}$$

$$d(a_1 + \omega + f) = 1 \cdot \omega$$

$$t_n = t_{n+k} + 1 \cdot \omega \rightarrow a + (n-1)d = a + (n-f)d + 1 \cdot \omega$$

$$a_1 = a + 1 \cdot \omega = a + f \cdot \omega$$

$$t_a = a + f \cdot \omega = a + r \cdot \omega$$

$$(t_a)^r - (t_a)^f = (t_a + t_a) \times (t_a - t_a)$$

$$d = \frac{t_m - t_n}{m - n} = \frac{r - 1 \cdot \sqrt{r} - r - \sqrt{r}}{1 \cdot r} = -\sqrt{r}$$

$$d = \frac{r \sqrt{r} - r}{r \sqrt{r} - r} = \frac{r}{n+1} \rightarrow r a_1 + r = r a_{n+1} - 1 \cdot n$$

$$r_1 = a_n \quad \boxed{n = \frac{r}{r}}$$

$$t_n + t_{n+f} = t_r + t_n$$

$$t_n = r \left(\frac{t_n}{r} \right)$$

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

$$2a_1 + d(n-1) + a_1 + d(n+r) = 2a_1 + 1 \cdot d$$

$$(n-1 + n+r)d = 1 \cdot d$$

$$r n = 1 \quad \boxed{n = 1}$$

$$t_1 = r(t_f)$$

$$a_1 + r d = r a_1 + 1 \cdot d$$

$$-r a_1 = r d$$

$$a_1 = -d$$

$$t_{11} = a_1 + d = 0$$

$$r_1 = \frac{r}{r}$$

$$a_1 = r_0 \quad a_n = a_1$$

$$a_n = a_1 + (n-1)u \Rightarrow a_1 = r_0 + (n-1)u$$

$$a_n = r_0 + (n-1)u$$

$$r_0 + (n-1)u = r_0 \wedge$$

$$r_0 = 140$$

$$n = 120$$

$$100 \leq Vx + w \leq 900 \Rightarrow (Vn \leq 900 \quad 110 \leq n \leq 140)$$

$$110 \leq n \leq 140 \Rightarrow 110 - 110 + 1 = 120$$

$$a_{12} - a_{10} = 2 \quad \boxed{d = r_1 \omega}$$

$$r(a_{12}) = r_0$$

$$a_{12} - a_{10} = 2d$$

$$a_{12} = 120$$

$$a_{12} = a_1 + 11(r_1 \omega)$$

$$a_{10} = a_1 + 9(r_1 \omega)$$

$$a_{12} = \frac{-r_1 \omega}{-1(r_1 \omega)} + (r_0) \left(\frac{r_1 \omega}{-1(r_1 \omega)} \right) =$$

$$\boxed{r_1 \omega}$$

$$a_{12} = \frac{-r_1 \omega}{-1(r_1 \omega)} = \frac{r_0 a_1 + r_0 (r_1 \omega)}{-1(r_1 \omega)} = r_0$$

$$a_{12} = r^x - 1$$

$$a_n = r^x + 1$$

$$a_{12} = r^x - 1$$

Newton's method



$$r(a_n) = a_{12} + a_{12}$$

$$r^x \times 4 = r^x + (r^x \times r) + (r^x)^r - r$$

$$\frac{1}{r^x} r^x \times 4 = r^x (1 + r + r^x) - r$$

$$\Rightarrow r^x = 1$$

$$(r^x)^r - r + (r^x)^r \times r_0 (r^x)^1 = r_0$$

$$r_0 = r^x$$

$$-r = 1$$

$$q_v = c_1 + p_0$$

$$\frac{q_0^T - q_0^T}{q_v} =$$

$$\frac{f_0(c_1 + p_0)}{c_1 + p_0} = f_0$$

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$$c_1 + n d + c_1 + (n+1)d + c_1 + (n+r)d =$$

or show

$$p c_1 + (p n + p) d = -c_1 n + 1 p$$

$$p c_1 + p n d + p d = -c_1 n + 1 p$$

$$p c_1 + p (-p) = 1 p \Rightarrow p c_1 = 1 p$$

$$\boxed{c_1 = 1}$$

$$c_1 n + c_1 v = c_1 + 1 v d + c_1 + 1 v d \Rightarrow c_1 - 1 p + c_1 - 1 p \Rightarrow \boxed{-1 p}$$

$$p d = -c_1$$

$$\boxed{d = -1}$$