

$$S_1 = d \frac{a_1 + r d}{r} = d(a_1 + r d) \quad S_1 = \frac{1}{r} S_T \Rightarrow d(a_1 + r d) = \frac{1}{r} (a_1 + r d)$$

$$S_T = d \frac{a_T + r d}{r} = d(a_T + r d) \quad a_1 + r d = \frac{1}{r} (a_1 + r d) \Rightarrow r a_1 + r^2 d = a_1 + r d$$

$$a_1 = a_1 + d = r a_1$$

$$a_1 + r d = r a_1 \Rightarrow r a_1 = a_1 + r d$$

$$\frac{a_T}{a_1} = \frac{r a_1}{a_1} = r$$

$$t_n = t_n - r d + 1 \quad t_E = t_1 + 1 \quad t_E = t_1 + r d \quad d = 0$$

$$(t_1 + t_n) (t_1 - t_n) = 1 \quad t_1 + t_n = 1 \quad t_1 + t_n = 1 \quad t_1 + t_n = 1$$

$$t_V = t_1 + r d = r \omega \Rightarrow \frac{1 \quad \omega}{\omega} = \omega$$

$$t_1 = \omega \Rightarrow t_V = 1 \Rightarrow t_V = t_1 + r d \Rightarrow 1 = t_1 + r d = t_1 + \omega = t_1 + \omega$$

$$t_1 = r(1 - \sqrt{r}) = r - 1 \sqrt{r} \quad t_E = t_1 + r d \Rightarrow r + \sqrt{r} = r - 1 \sqrt{r} + 1 \sqrt{r}$$

$$\Rightarrow 1 \sqrt{r} \quad d = \sqrt{r}$$

$$t_{1E} = r + \sqrt{r} \quad a_{1E} = a_1 + 1 \sqrt{r} \rightarrow r - 1 \sqrt{r} + 1 \sqrt{r} = r + \sqrt{r}$$

$$1 \sqrt{r} = 1 \sqrt{r}$$

$$d = \sqrt{r}$$

$$d = \frac{r(r - r)}{r_n - r} = \frac{r_0}{r_n - r} \quad t_1 = r, \quad t_n = r$$

$$t_{n+1} = t_1 + (n+1-1)d \Rightarrow nd = 9 \quad nd = \frac{r_0 n}{r_n - r} = 9 \Rightarrow r_0 n = r(r_n - r) \quad r_n = 1 \Rightarrow n = r$$

$$a_n + a_{n+1} = a_T + a_{1V} \quad (a + (n-1)d) + ((a + r n + r)d) = (a + r d) + (a + 1 \sqrt{r})$$

$$(a + nd - d) + (a + nd + r a) = (a + r d) + (a + 1 \sqrt{r})$$

$$r a + (r n + r) d = r a + 1 \sqrt{r} \Rightarrow (r n + r) d = 1 \sqrt{r}$$

$$a_n = r a \rightarrow r a_1 = -r d \rightarrow a_1 = -d \Rightarrow r n + r = 1 \Rightarrow r n = 1 \Rightarrow n = r$$

$$a_t = 0 \rightarrow a_1 + (n-1)d \rightarrow -d + r d - d = 0$$

$$r d = r d \rightarrow d = r \rightarrow t = r$$