$$\begin{array}{l} U_{K} = U_{K+1} P + U_{K-1} Q & - P + Q = 1 \\ U_{K} (\rho + q) = U_{K+1} P + U_{K-1} Q & (\rho + q) \\ U_{K} P + U_{K} Q = U_{K+1} P + U_{K-2} Q \\ (U_{K} - U_{K+1}) P = (U_{K-1} - U_{K}) Q \\ U_{K+1} - U_{K} = \frac{q}{P} (U_{K} - U_{K-1}) & \text{Resolution look it it it is example of } U_{d-1} \\ U_{3} - U_{4} = \frac{q}{P} (U_{1} - U_{0}) & \rightarrow K = 1 \\ U_{3} - U_{4} = \frac{q}{P} (U_{3} - U_{4}) & \rightarrow K = 1 \\ U_{4} - U_{3} = \frac{q}{P} (U_{3} - U_{4}) & \rightarrow K = 1 \\ U_{4} - U_{3} = \frac{q}{P} (U_{1} - 1) & U_{4} - U_{5} = \frac{q}{P} (U_{1} - 1) \\ U_{4} - U_{5} = (\frac{q}{P})^{2} (U_{1} - 1) & U_{4} - U_{5} = (\frac{q}{P})^{3} (U_{1} - 1) \\ U_{4} - U_{3} = (\frac{q}{P})^{3} (U_{1} - 1) & U_{4} - U_{3} = (\frac{q}{P})^{3} (U_{1} - 1) \\ U_{K} - U_{K} - U_{K} - (\frac{q}{P})^{3} (U_{1} - 1) & U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) \\ U_{K} - U_{K} = (\frac{q}{P})^{3} (U_{1} - 1) & U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{4} - U_{5} = \frac{q}{P} (U_{4} - 1) + U_{5} - U_{5} = \frac{q}{P} (U_{4} - 1)$$

$$S_{K} = 1 + \frac{(9/p)}{1 + (9/p)^{2} + \dots + \frac{(9/p)^{K+1}}{1 + 9/p}} \begin{cases} K+1 & P=9 \\ \frac{1-(9/p)^{K+1}}{1-9/p} & p\neq 0 \end{cases}$$

$$S_{K} = 1 + 1 + \dots + 1$$

$$= K+1$$

$$S_{K}(1-r)=1-r^{K+1}$$

$$S_{K}=\frac{1-r^{K+1}}{1-r}$$

$$r=\frac{1}{p}=\frac{1}{q}$$

$$S_{K}=\frac{1-\frac{q}{p}^{K+1}}{1-q}$$

$$V = \frac{9}{p} = 1$$
 $9 = p$
 $S_K = \frac{1 - |9/p|^{K+1}}{1 - |9/p|}$

$$4k = 1 - \frac{5k - 1}{5a - 1}$$

$$4x - 1 - \frac{1 - (9/p)^{K}}{1 - (9/p)^{9}} =$$

$$9 \times = 1 - \frac{1}{9} = \frac{9 - 1}{9}$$

$$9 = 1 - \frac{1}{9} = \frac{9 - 1}{9} = \frac{9$$

$$4x - \frac{1}{1 - (9/p)^{4}} = \frac{1 - (9/p)^{4} - 1 + (9/p)^{4}}{1 - (9/p)^{9}} = \frac{1 - (9/p)^{9}}{1 - (9/p)^{9}}$$

$$4K = \frac{-SK-1}{Sq-1} + 1 = 1 - \frac{SK-1}{Sq-1}$$