$$-2xL^{2} = 2rx(1-L)^{2} + rL + rx - 2rLx$$

$$-2xL^{2} - 2rx(1-2L+L^{2}) + rL + rx - 2rLx$$

$$-2xL^{2} - 2rx + 4rxL - 2rxL^{2} + rL + rx - 2rLx$$

$$2rxL$$

$$\frac{1}{2} = 2xL^{2} - rx + 2rxL - 2rxL^{2} + rL = 0$$

$$-2L^{2} - r + 2rL - 2rL^{2} = 0$$

$$- \left[2(1+r)L^{2} - 2rL + r\right]x + rL = 0$$

$$- \left[2(1+r)L^{2} - 2rL + r\right]x + rL = 0$$

$$X = \frac{rL}{2(1+r)L^2 - 2rL + r}$$

$$1-X = 2(1+r)L^{2} - 2rL + r - rL$$

$$2(1+r)L^{2} - 2rL + r$$

$$1-X = \frac{2(1+r)L^{2} - 3rL + r}{2(1+r)L^{2} - 2rL + r}$$

$$\lambda_{I}(x) = \lambda_{II}(L)$$

$$\frac{2}{x^{2} + r(1-x)^{2}} = \frac{2rL(1-L)}{[L^{2} + r(1-L)^{2}]^{2}}$$

$$\frac{gK \left[ 2(1+r)L^{2} - 2rL + r \right]}{r^{2}L^{2} + r \left[ 2(1+r)L^{2} - 3rL + r \right]^{2}} = \frac{gK \left( 1-L \right)}{\left[ L^{2} + r \left( 1-L \right)^{2} \right]^{2}}$$

$$[2(1+r)^{2}-2rL+r][^{2}+r(1-L)^{2}]^{2}+$$



$$+(L-1)$$
{ $r^2L^2+r[2(1+r)L^2-3rL+r]^2=0$ 

$$(1-L)$$
{ $r^2L^2+r$ [ $2(1+r)L^2-3rL+r$ ]<sup>2</sup>

$$- \left[ 2(1+r)^{2} - 2rL + r \right] \left[ 2 + r(1-L)^{2} \right]^{2} = 0$$