$$Y(L_{1}k) = AL^{\infty}k^{\beta}$$

$$F(L_{1}k) = Y(L_{1}k) - y_{0} = 0$$

$$k = K(L)$$

$$fivad as k'(L)^{2}$$

$$\frac{dK(L)}{dL} = -\frac{DLF(L_{1}k)}{DKF(L_{1}k)}$$

$$= -\frac{AL^{\infty}K^{\beta}}{\beta AL^{\infty}K^{\beta-1}}$$

$$= -\frac{AL^{\infty}K^{\beta}}{\beta AL^{\infty}K^{\beta}}$$

$$= -\frac{AL^{\infty}K^{\beta}}{\beta AL^$$