) Given:
$$\frac{1-d}{p} \frac{C_{E}}{l_{E}} = \frac{(1-\alpha)\frac{\gamma_{E}}{n_{E}}}{n_{E}}$$

$$\frac{E_{GI} \left(\beta \frac{u(Q_{E},l_{E})}{C_{E}}\right) \left(\alpha \frac{\gamma_{E}}{k_{E}} + (1-\delta)\right)}{C_{E}} = \frac{u(Q_{E},l_{E})}{C_{E}}$$

$$\frac{\gamma_{E}}{l_{E}} = \frac{\gamma_{E}}{l_{E}} \frac{v(Q_{E},l_{E})}{C_{E}}$$

$$\frac{\gamma_{E}}{l_{E}} = \frac{v(Q_{E},l_{E})}{C_{E}}$$

Performing steady state calculations:

$$(3) \Rightarrow \overline{K} = \overline{\lambda} + (1-8)\overline{K}$$

$$\therefore \overline{K} = S\overline{K} = \overline{\lambda}$$

$$\left(\frac{R}{i}\right) = \left[\frac{1-(1-8)}{\alpha\beta}\right]^{\frac{1}{\alpha}-1}$$

$$\frac{\overline{y}}{\overline{z}} = \left(\frac{\overline{F}}{\overline{z}}\right)^{\alpha} = \omega^{\alpha} - \overline{\omega}$$

$$\frac{1}{\sqrt{100}} = \frac{1}{\sqrt{100}} = \frac{1}$$

log lineoxization:

y = 
$$\frac{7}{2}$$
 to  $\frac{7}{4}$  to

In steady state

log= lnz + dln k + (1-d) ln n  
(oncelling these ferms in above eg?:  

$$\frac{1}{2}$$
 =  $\left(\frac{74-\overline{2}}{2}\right)$  +  $\frac{1}{2}$  +  $\frac{1}{2}$  +  $\frac{1}{2}$  =  $\left(\frac{74-\overline{2}}{2}\right)$  +  $\frac{1}{2}$  +  $\frac{1}{2}$  =  $\frac{1}{2}$ 

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The Zt ax Ket (1-a) if

where 
$$g_t = J_t - g_t = Percentage derivation from steady date$$

Applying Trylor >> 
$$\frac{1}{2} = \left(\frac{7}{5}\right) \cdot \left(\frac{7}{5}\right) + \left(\frac{7}{5}\right) \cdot \left(\frac{7}{5}\right)$$

Steedy state 
$$g=\overline{c}_{t}$$

$$+\frac{(1-8)}{(i+(1-8)E)}(k_{+1}-E)$$

suplifyng,

In 
$$(n_k + l_k)$$
 = 0

Soylor:  $\ln(n_k + l_k)$  = 0

Soylor:  $\ln(n_k + l_k)$  = 0

At steady:  $\ln(n_k + l_k)$  =  $\ln(n_k + l_k)$  =

Assume: \$\( (1-8) -1 = \gamma 4 \left(1-8) \left(1-8) = \gamma = ln p+ Ft-1 / Yln (++ th f log: Yhn (+++ >lnl+1 + ln(2,4 K2-1n(-71-8) Applying Taylor Senes, M(x 2 4 x 1-1-4) = ln (x K x -1-1-d+ 1-8) + d [ x - 1 5 1 - d ( 2 - 2 ) + d ( d - 1 ) R x - 1 n + d d / 2-12-1-41-8 (2-12) 0 KM151-d+1-8 + X(X-1)K-2-2 1-d (K-R) A y lot + y ((1-1) + ) hit + > (l+1-1) = lnB+ E-1 VlnT+ Y ((4-C)+ x ln i + x(1-i) Correlling simpler tems, Y EL-1 + X le-1 = E-1 [Y (+ + ) [+ (1- (1-8) B) ] + (x-1) (1-(1-8) B) F + (1-2) (1-C1-8)B) n+ Ti to 18 one the log linearized system of ego using 1st order Taylor Sences Exponsion

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