$$0, 3, 4$$

$$E_{t} \frac{1+2t}{1+17t+1} = \left[f\left(\frac{k_{t}}{1+n}\right) + (1-8)\right]$$

$$f(x,y) = xf_x + yf_y$$
$$F(k,N) = kf_k + Nf_N$$

$$r = f_{k}'$$
,  $w = f_{N}'$ 

$$E_{t} \frac{1+it}{1+17+11} = 1+r_{t}$$

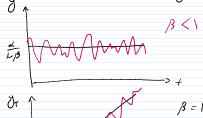
## Steady State Equilibrium:

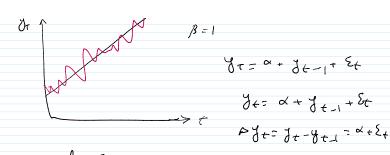
First order Difference Equation (AR(1))

$$y_t = \alpha + \beta y_{t,1} + \varepsilon_t$$
,  $\varepsilon_t \sim i.i.d. N(0,1)$ 

 $J_{t} = \alpha(1+1)^{3} + \beta^{2} + \cdots + \beta^{t} + \beta^{t} + \beta^{t} + \xi_{t} + \beta^{2} \xi_{t-1} + \beta^{2} \xi_{t-2} + \cdots + \beta^{t} \xi_{o}$ 

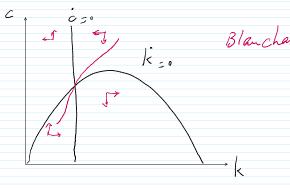
mean-reverting property





Steady State

yt = yt-1 = Et yt+1 = 85



U'<sub>2</sub>(Ct, Mt)=βE<sub>t</sub> [f'<sub>k</sub>(kt)+1-8] U'<sub>2</sub>((Ct+1, Mt+1))

$$E_t = \frac{1 + i_t}{1 + R_{t+1}} = f'(k_t) + 1 - 8$$

$$\frac{U'_{m}(C_{t}, m_{t})}{U'_{c}(C_{t}, m_{t})} = \frac{2t}{1+2t}$$

$$f(k_{t}) + T_{t} + (1-8)k_{t-1} + \frac{m_{t-1}}{1+n_{t}} = C_{t} + k_{t} + m_{t} + \frac{m_{t}}{1+n_{t}}$$

$$u'_{c}(c^{55}, m^{55}) = B \left[ f_{k}(k^{55}) + 1-8 \right] \cdot u'_{c}(c^{55}, m^{55})$$

$$7 + (1 + 2i_{-1}) \frac{b_{t-1}}{1 + \pi t} + \frac{m_{t-1}}{1 + \pi t} = m_t + b_t$$

$$C + (1+i^{55}) \frac{b^{55}}{1+\pi^{55}} + \frac{m^{55}}{1+\pi^{55}} = m^{55} + b^{55}$$

$$\begin{array}{lll}
\delta^{55} = 0 \\
T = M^{55} \left(1 - \frac{1}{14\pi^{55}}\right) \\
N = 0 & R^{55} = 0
\end{array}$$

$$\begin{array}{lll}
1 = \beta \left[ \int_{k}^{1} (k^{55}) + (1 - \delta) \right] \\
\int_{k}^{1} (k^{55}) = \frac{1}{\beta} - 1 + \delta & \int_{k}^{1} (k) = k^{\alpha} \\
\int_{k}^{1} (k) = \alpha k^{\alpha - 1} \\
\lambda^{55} = \left[ \frac{\alpha \beta}{1 + \beta(\delta - 1)} \right] \frac{1 - \alpha}{\beta}
\end{array}$$

$$\begin{array}{lll}
k^{55} = \left[ \frac{\alpha \beta}{1 + \beta(\delta - 1)} \right] \frac{1 - \alpha}{1 - \alpha}$$

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2'55 = 1+0 -1