

Key to ch. 3 practice problems.

$$1.) \hat{\pi}_t = B E_t [\hat{\pi}_{t+1}] + ~~k~~ k y_t$$

$$2.) \frac{\bar{Y}(y_t - \bar{Y})}{\bar{Y}} = \frac{\bar{R} E_t}{\bar{L}} \left(\frac{R_{t+1} - R_t}{\bar{R}} - \frac{L_{t+1} - L_t}{\bar{L}} \right) - \frac{1}{3} \bar{Y} \frac{(y_{t-1} - \bar{Y})}{\bar{Y}}$$

$$\bar{Y} \hat{y}_t = \frac{\bar{R}}{\bar{L}} E_t [\hat{R}_{t+1} - \hat{L}_{t+1}] - \frac{1}{3} \bar{Y} \hat{y}_{t-1}$$

where $\hat{x}_t = \frac{(x_t - \bar{x})}{\bar{x}}$

3.) As $\varepsilon \rightarrow \infty$, $k \rightarrow 0$ in the New Keynesian Phillips Curve.

Deviations of $\hat{\pi}_t - B \hat{\pi}_{t+1}$ from 0 now produce larger deviations of \hat{y}_t .