

Reglas Útiles de Log-linealización

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Defina como:

$$x_t = \log X_t - \log X^*$$

Entonces:

1. $X_t \approx X^*(1 + x_t)$
2. $X_t^\rho \approx X^{*\rho}(1 + \rho x_t)$
3. $aX_t \approx aX^*(1 + x_t)$
4. $X_t Y_t \approx X^* Y^*(1 + x_t + y_t)$
5. $Y_t(a + bX_t) \approx Y^*(a + bX^*) + aY^*y_t + bX^*Y^*(x_t + y_t)$
6. $Y_t(a + bX_t + cZ_t) \approx Y^*(a + bX^* + cZ^*) + Y^*(a + bX^* + cZ^*)y_t + bX^*Y^*x_t + cZ^*Y^*z_t$
7. $\frac{X_t}{aY_t} \approx \frac{X^*}{aY^*}(1 + x_t - y_t)$
8. $\frac{X_t}{Y_t + aZ_t} \approx \frac{X^*}{Y^* + aZ^*} \left[1 + x_t - \frac{Y^*}{Y^* + aZ^*}y_t - \frac{aZ^*}{Y^* + aZ^*}z_t \right]$