The Solow Model Lecture 2

The Solow Model

$$zY = F(zK, zehL) \Rightarrow F is CRS$$

$$\frac{1}{2}Y = \frac{1}{2}F(K, ehL) = F(K, ehK) = F(K, eh)$$

$$k = \frac{K}{L}$$
, capital per worker, $y = \frac{Y}{L}$, output per worker

$$y = F(k, eh) \equiv f(k)$$
 $K(+)$, $y(+)$ Drop t index for not obstraing the notes

f(k) exhibits diminishing marginal product of copital

Change in capital stock = Investment - Depreciation

$$K = I - D$$
 $K = dK(H)$
 $K = YY - 8K$
 $Y = XY - 8K$
 $Y = XY - 8K$
 $Y = YY - 8K$
 $X = YY - 8K$
 $X = XY - 8X$
 $X = X$

$$\frac{k}{k} = \frac{87}{K} - 8$$

$$\frac{k}{k} = \frac{K}{K} - N \Rightarrow \frac{k}{k} = \frac{k}{k} + n$$

$$\frac{M}{N} = \frac{M/c}{N/c}$$

$$\frac{k}{k} + n = \frac{87}{K} - 8 \Rightarrow \frac{k}{k} = \frac{87}{K} - 8 - n = \frac{87/c}{K/c} - (8+n) = \frac{k}{K}$$

$$\frac{k}{K} = \frac{1}{K} + n \Rightarrow \frac{M}{K} = \frac{1}{K} + n \Rightarrow \frac{1}{K} = \frac{1}{K} + n \Rightarrow \frac{1}{K}$$