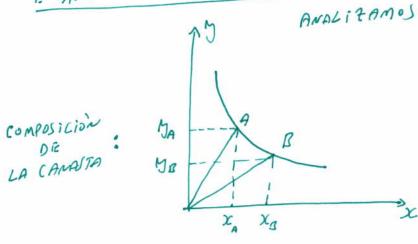
ELASTICIDAD DE SUBSTITUCION

1- INTUICION GRAFICA



$$\frac{y_A}{x_A} \rightarrow \frac{y_a}{x_A}$$

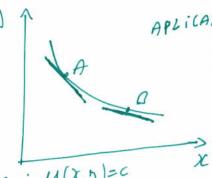
$$\frac{M_A}{X_A} \longrightarrow \frac{M_B}{X_A} \qquad \Delta \left(\frac{M}{X}\right) = \left(\frac{M_B}{X_A} - \frac{M_A}{X_A}\right)$$

EN TERMINOS PASPONCIONALES.

$$\frac{\Delta\left(\frac{M}{x}\right)}{\frac{M}{x}}$$

PENDIENTES

DE LA CUNVA OF INDEFERGA



APLICAMOS DENIVADA IMPLICITA:

$$\frac{\partial x}{\partial x} dx + \frac{\partial y}{\partial y} dy = 0$$

ALDECIA: M(X,5)=C

TENEMOS UNA

$$\frac{dy}{dx} = -\frac{\partial u/\partial x}{\partial u/\partial y}$$

FUNCION IMPLICITA

$$\frac{\partial u/\partial x}{\partial u/\partial x}$$

$$\Delta \left(\frac{\partial u/\partial x}{\partial u/\partial y} \right) = \Delta \left(\frac{\partial v}{\partial u/\partial y} \right) = -\frac{\partial u/\partial x}{\partial u/\partial y} \left| \frac{\partial v}{\partial u} \right|_{\partial y} = -\frac{\partial u/\partial x}{\partial u/\partial y} \right|_{\partial y}$$

ESTAS DERIVADAS

FON EVALVADAS EN BY A

EN FORMA PROPORCIONAL.

ELASTICIDAD OF SUASTITUCION:

$$\Delta(\frac{9}{x})$$

RECORDEMOS:

$$d\ln z = \frac{dz}{z} \approx \frac{\Delta z}{z}$$

APLICAMOS A NUESTAA DEFINICIÓN DE S:

$$\frac{\Delta(5/x)}{5/x} = \frac{\partial \ln(5/x)}{5/x}$$

$$\frac{\Delta\left(\frac{\partial u/\partial x}{\partial u/\partial x}\right)}{\frac{\partial u/\partial x}{\partial u/\partial y}} = \frac{\partial \ln\left(\frac{\partial u/\partial x}{\partial u/\partial y}\right)}{\frac{\partial u/\partial x}{\partial u/\partial y}}$$

ENTONCES:

$$S = \frac{\partial \ln(10/x)}{\partial \ln(\frac{\partial M/\partial x}{\partial \ln/\delta b})}$$

2-CALCULAR 5 PAM LA GEL

$$\mu(X,b) = \left(\alpha X^{\beta} + (1-\alpha)X^{\beta}\right)^{1/\beta}$$

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$$\rho_{ACITO} = \rho_{ACITO}: \frac{\partial \mu}{\partial x} = \frac{1}{\rho} \left(\alpha X^{\beta} + (1-\alpha)B^{\beta}\right)^{\frac{1}{\rho}-1} agx^{\beta-1}$$

$$\frac{\partial \mu}{\partial y} = \frac{1}{\rho} \left(\alpha X^{\beta} + (1-\alpha)B^{\beta}\right)^{\frac{1}{\rho}-1} agx^{\beta-1}$$

$$\frac{\partial \mathcal{U}}{\partial y} = \int \left(\frac{x}{y} \right)^{g-1} = \frac{\partial}{\partial x} \left(\frac{y}{x} \right)^{1-g}$$

$$\frac{\partial \mathcal{U}}{\partial x} / \partial w / \partial y = \frac{\partial}{\partial y} \cdot \left(\frac{y}{y} \right)^{g-1} = \frac{\partial}{\partial z} \cdot \left(\frac{y}{x} \right)^{1-g}$$

$$\ln \left(\frac{\partial u/\partial x}{\partial u/\partial n} \right) = \ln \frac{\alpha}{1-\alpha} + (1-8) \ln \left(\frac{M}{x} \right)^{\alpha}$$

$$\frac{\partial \ln \left(\frac{\partial u/\partial x}{\partial u/\partial b}\right)}{\partial \ln \left(\frac{b/x}{b}\right)} = (1-9)$$

$$\frac{\partial H}{\partial 6} = 1 - S$$

RECORDAN:
$$ln(a.b) = lna + ln6$$

 $ln(\frac{1}{a}) = -lna$
 $lnab = b lna$