MAX
$$f(X)$$

 $\{X\}$ 5.0. $\{g_{k}(X) = C_{k}, f_{k-1,2,-..,K}\}$
 $h_{k}(X) = d_{k}, f_{k-1,2,-..,k}$

$$0 \frac{\partial f(x)}{\partial x_i} = \frac{1}{k_{z_i}} \lambda_R \frac{\partial g_R(x)}{\partial x_i} + \frac{1}{\ell_{z_i}} \sum_{k=1}^{\ell} \frac{\partial h_\ell(x)}{\partial x_i}$$

$$\frac{MAX}{\langle x,n \rangle} \times + y^{1/2}$$

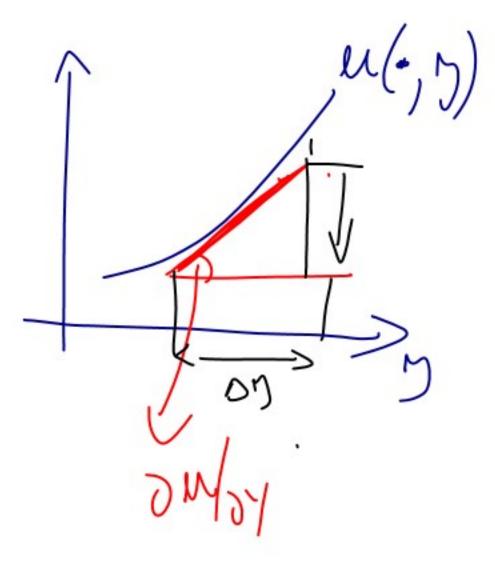
$$\frac{-X = 0}{-y = 0}$$

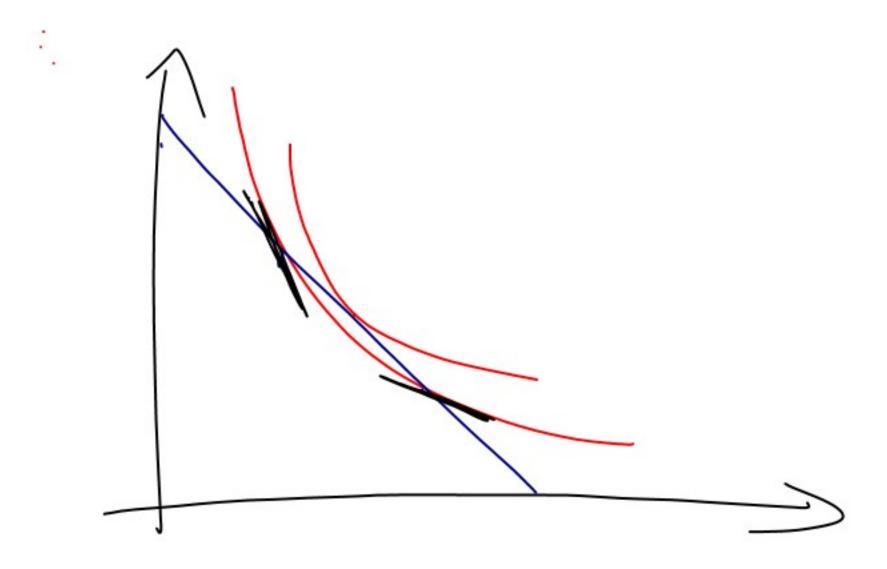
$$\frac{\partial X + y^{1/2}}{\partial X} = \lambda \frac{\partial (f_{x} X + f_{y} y - I)}{\partial X} + f_{y} \frac{\partial (-X)}{\partial X} + f_{y} \frac{\partial (-X)}{\partial X}$$

$$\frac{\partial X + y^{1/2}}{\partial y} = \lambda \frac{\partial (f_{x} X + f_{y} y - I)}{\partial y} + f_{y} \frac{\partial (-X)}{\partial y} + f_{y} \frac{\partial (-X)}{\partial y}$$

$$\lambda = \frac{1}{2 \ln \left(\frac{T}{P_{y}}\right)^{\nu_{2}}} = \frac{1}{2 \ln T} \sum_{i=1}^{\nu_{2}} \frac{1}{2 \ln T} \sum_{$$

MAX U(X,y) SX,y) 5.0. Px X+B7=I $\left(\frac{1}{R}\right)^{MSX} \rightarrow M/SM \cdot \left(\frac{-1}{R_{y}}\right)$



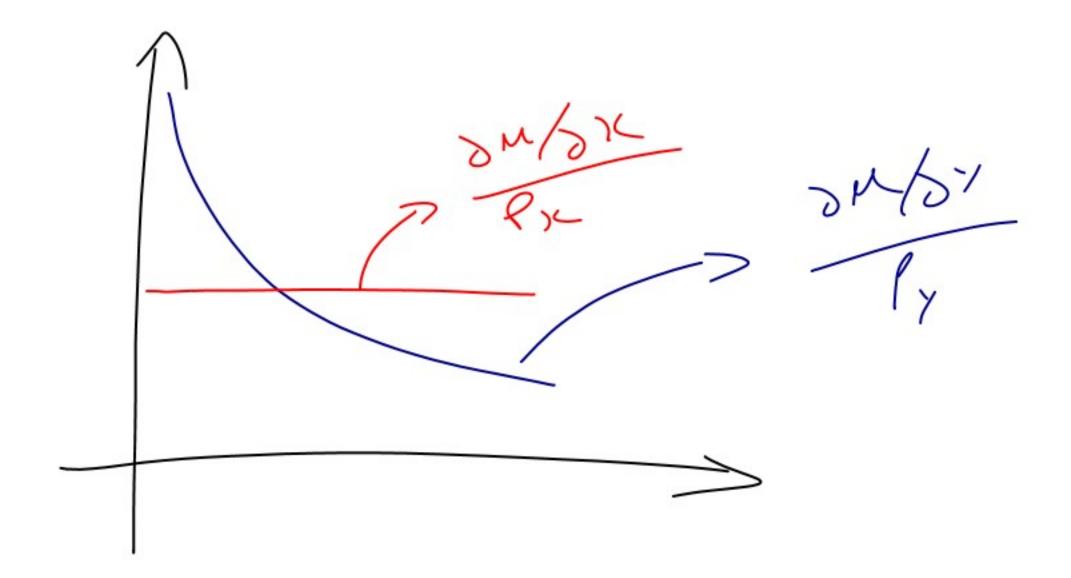


$$\frac{\partial u(x,y) = x + y'^2}{\partial u/\partial x}$$

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

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

$$\frac{1}{2 \log y'^2}$$



DOS TICOS IMPORTANIES DE U(.) (1) HOMOTETICAS <=> \ X, y \ X => \ X^~ \/ (=) (=) (X) H 6.1 ENX $u(\alpha x) = \alpha u(x)$

Si
$$\Rightarrow$$
 Son CupsizinEnces! \Rightarrow \exists u :
$$M(X_1, X_1, ..., X_m) = X_1 + \phi(X_1, ..., X_m)$$

$$\int_{\alpha_{1}}^{\infty} \left(y - \alpha_{1} \right)^{2} + \left(x - \alpha_{2} \right)^{2}$$

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