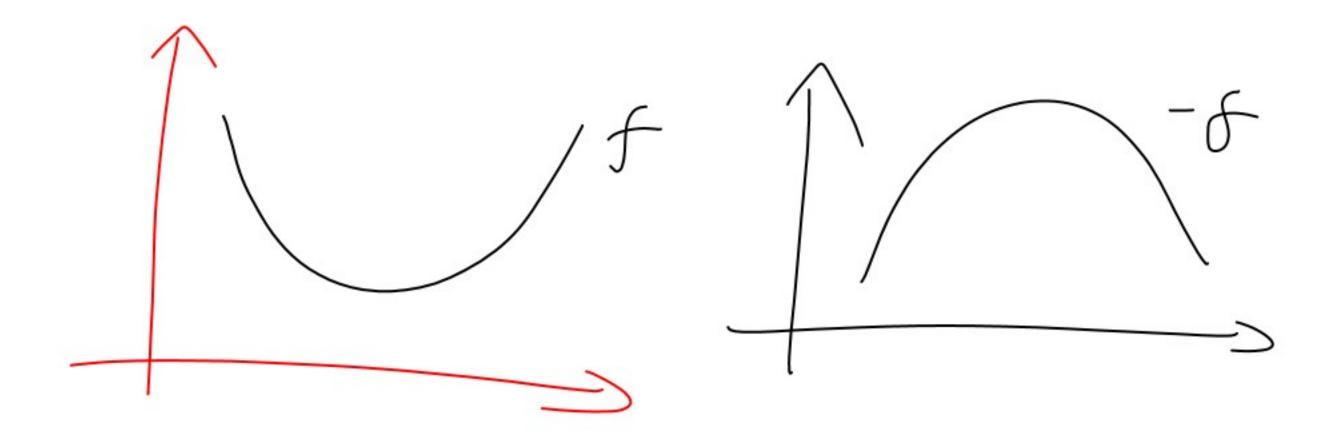
>> Min P.h hy s.e. ulh)>n MAX U(X) {X} S.a. PX <= W h(P, II) e(P,u)



$$\widehat{\mathcal{U}}(X) = \widehat{\mathcal{H}}(X)$$

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$$\widetilde{\mathcal{U}}(x) = (\overline{\mathbf{I}} \times \widehat{\mathbf{X}}_{i}^{2}) = \overline{\mathbf{I}} \times (\overline{\mathbf{X}}_{i}^{2}) = \overline{\mathbf{I}} \times (\overline{\mathbf{X}}_{i$$

$$\frac{\partial A}{\partial \chi_{i}} = 0 \qquad i = 1, 2, \dots, m \qquad \frac{\chi_{i}}{\chi_{i}} = \lambda P_{i} Z_{i}$$

$$\frac{\partial A}{\partial \chi_{i}} = 0 \qquad \underbrace{\exists q_{i} = \lambda P_{i} \chi_{i}}_{i} = w$$

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PROBLEMA MINIMIZACIÓN GASTO 34) s.a. u(h) >u d=- = P.h. - > (u- = a, hh;)  $\frac{\partial \lambda}{\partial h_{i}} = 0$   $P_{i} = \lambda \frac{\lambda_{i}}{h_{i}}$   $\tilde{u} = \sum_{i} \chi_{i} \ln(h_{i})$ 

$$\begin{aligned}
\bar{u} &= \frac{\lambda}{h} \cdot \frac{\lambda$$

u = \leq ai \left lm \left :- lm li 元= mx = イ: + 三分mx: - 三分ml: ln) = - [ [ [ - = - : ln 1; + = - : ln ]  $\Lambda = e^{lm\lambda} = \bar{l}xy$   $= \bar{l}xy$ 

$$\lambda = E \times P \left[ \overline{M} - \underbrace{=}_{i} \cdot ln \cdot Y_{i} + \underbrace{=}_{i} \cdot ln \cdot P_{i} \right]^{q_{i}}$$

$$\lambda = \underbrace{e^{\overline{M}} P^{q_{i}}}_{\overline{M}} = \underbrace{e^{\overline{M}} \left( P_{i} \right)^{q_{i}}}_{i = i} \cdot \underbrace{e^{\overline{M}} \left( P_{i} \right)^{q_{i}}}_{j = i}$$

2 LEONTIET: 
$$el(X,y) = MiNSX,M$$
  
 $MAX$   $MiNSX,M$   
 $S(X,Y)$   
 $S(X+By) = W$   
 $X=y$   
 $P_{X}X+By=W$   
 $X=\frac{1}{2}$   
 $P_{X}X+By=W$