Individual and Bilateral Surpluses from Trade

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Utility Jundion $\frac{l_{1}l_{2}}{U} \left(\begin{array}{c} C \\ - \end{array} \right) = \begin{array}{c} X \\ 1+X \end{array} \left(\begin{array}{c} E \\ -1 \\ 2 \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} \left(\begin{array}{c} m \\ P \end{array} \right) = \begin{array}{c} E \\ -1 \\ 2 \end{array} 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\right) = \left(\begin{array}{c} m$ Mangimal utility of pervices: $\frac{\partial u}{\partial c} = \frac{x}{1+x} \frac{z-1}{z}$ buyen takes away from Frade Marginal utility of morey. $\frac{\partial u}{\partial u} = \frac{1}{1+\chi} \cdot \frac{\chi-i}{2} \left(\frac{m}{p}\right) - \frac{1}{2}$ $\frac{\partial u}{\partial m} = \frac{1}{1+\chi} \cdot \frac{\chi-i}{2} \left(\frac{m}{p}\right) - \frac{1}{2}$ Fa abransadian at price p^m (pice nam), utilityis $P^{n} \cdot \frac{\partial u}{\partial m} = \frac{p^{n}}{P} \cdot \frac{1}{1+\chi} \cdot \frac{\xi-1}{\xi} \cdot \left(\frac{m}{p}\right)^{-1/\xi}$ All households hold prunits of maney, so seller experience utility. $p^n \frac{\partial u}{\partial m} = \left(\frac{p^n}{p}\right) \frac{1}{1+\chi} \frac{\xi - i}{\xi} \left(\frac{\mu}{p}\right)^{-i/\xi}$ Jan knade. If there was no trade (required to compute surplus). - seller gets O.

- bayer gets p^m units of money, which provide chi'li'ty: $p^{m} \frac{\partial u}{\partial m} = \left(\frac{p^{m}}{p}\right) \frac{1}{1+\chi} \frac{\xi-1}{\chi} \left(\frac{-1}{p}\right)^{-1/\chi}$ - Seller enjoys suplus from made; $S = \left(p^{n} \right) \frac{1}{1+\chi} \cdot \frac{\xi-1}{\xi} \cdot \left(\frac{\mu}{p} \right)^{-1/\xi}$ All prive are the same, given by prive nom, $p_{\mathcal{D}} \stackrel{m}{\underset{l+X}{p}=p}$ $S = \frac{1}{1+X} = \frac{4-1}{2} \cdot \left(\frac{p_{\mathcal{D}}}{p}\right)^{-1/2} \cdot \frac{500}{2}$ - Bayen enjoys our flus from trade. $B = X = (C = (p^{n}) + ($ $\beta = \frac{1}{1+x} \quad \xi = 1 \quad \left[X c^{-1/\xi} - \left(\frac{r}{p}\right) \left(\frac{\mu}{p}\right)^{-1/\xi} \right]$ $B = \frac{1}{1+\chi} \cdot \frac{\chi^{-1}}{\chi} \cdot \left[\chi \cdot \frac{\chi^{-1/2}}{\chi} - \left(\frac{\chi}{\rho}\right)^{-1/2} \right] \left(\begin{array}{c} \text{all price} \\ \text{are pairs} \end{array} \right)$ $\frac{\mp \alpha}{X c^{-1/2}} = \left[1 + \tau(\pi)\right] \left(\frac{N/p}{r}\right)^{-1/2} + D converter$

 $B = \frac{1}{1+x} \frac{4-1}{4} \left[(1+\tau(\pi))(\mu|e)^{-1/2} - (\mu|e)^{-1/2} \right]$ $B = \frac{1}{1+\chi} \cdot \frac{\xi^{-1}}{\xi} = \frac{\tau(\chi)}{\tau(\chi)} \cdot (\chi/g)^{-1/\xi} = \frac{1}{8>0}$. selle surplus. S>0 Con clusion. · buyer pur plus, BDD . total sur plus from makeli; T = S + B > D