Dul- Blad Econ 2316

Marlet Pour as heaplet I fonton Review of two-part tanks Suppose a conver has house dead P=20-4q For a store, TC = 2000+19 (MC=2) a) What is the membership fee and per-rent fee? P=MC, so P=2 T=CS, so / 18/4=4.5  $T = \frac{1}{2}(18)(\frac{18}{4})$ = 18.18 81 = 40.5 A) If thee are 100 idental congrues, what is T?

c) How does this compare to a unitarally pring monopolist?

P = 20-0.849

MR = 20-0.089, MC=2

20-0.089 = 2

$$q = \frac{18}{0.08} = 225$$

$$P = 20 - 0.04 \left(508^{2}\right)^{9}$$

=11

Option 1: P=ML, T=low CS

Ophin 2: P>MC Firm Surplus from type I = A+B A=merboshy fee B= revenue from P>HC C+D=type 2 revenue humps m From type 2: A+B+C+D To find P: Max PS => max [2T+ (P-mc)(q1+22)]

Bundling - Selling 2+ products as a package

Bundling increase profit if demands are negatively

corrected

4 Selling goods separatly

- reach all company of a low prize...or

- reach all conjumes of a low proze...or

- charge high proze to fever

to Reach all conjumes by chegry a medium proce

Example: Mc, = Mcz = 30, FC = 0

Individually: P, = 100 -> 9 = 1, -> 7 = 100-30=70 P2 = 100 -> & = 1, -> ~ = 100-30= 70 1 116tel = 140 Bundle (forces): Poundle = 120

Consiner Choice (Mixed Bundling): Printle = 120 -> Sinon buys bundle P. = 99.99 -> Theodore would get 1 f simples hyry only product 1 compand to 0 singles wil the bush

P2 = 99.99 -> Same logiz as / W/ Alvin T= 199.98 (120+2×95.95] - 120) Rish and Uncertainty

Payoff - vale associated w/ an atcome

Expected Value:

e per tel Valu:

$$[h = E(X) = E \times P(X = X)] \times Weighted wenge$$

Stadurd Devictor: - extent to which possible outcomes of an uncertain event differ from the mean

Prefere Towards Risk

$$\widetilde{E}(\upsilon) = \underbrace{\xi'}_{\alpha H \chi} U(\chi) P(\chi)$$

St. Petersbirg Pandox - Suppose we play a gar - toss a con until you get tails

Tails on 1 - you get \$2 Tails on ? - you get \$4 Tails on 3- you get \$8, and so on

Expected Utility of Phis example

Suppose 
$$U(I) = \ln(I)$$

utility of

$$E(v) = \int_{0}^{\infty} (1) dv$$

$$E(v) = |_{n}(2).$$

$$= \sum_{i=1}^{n} |_{n}(2)$$

$$E(v) = l_n(1).$$

$$= \begin{cases} l_n(1) \\ l_n(2) \end{cases}$$

$$E(U) = I_n(1).$$

$$= \sum_{n=1}^{n} I_n(2)$$

$$E(v) = l_n(2).$$

$$= \sum_{n=1}^{\infty} l_n(2)$$

$$E(v) = l_n(z).$$

$$= \mathcal{E}_1 l_n(z)$$

$$E(v) = l_{n}(2) \cdot \frac{1}{2} + l_{n}(4) \cdot \frac{1}{4} \cdot \cdots$$

$$= \sum_{n=1}^{\infty} l_{n}(2^{n}) \cdot \frac{1}{2^{n}}$$

$$() \cdot \frac{1}{2} + \ln(4) \cdot \frac{1}{4} \cdot \cdots$$

$$ln(2^n)\cdot \frac{1}{2^n}$$

$$l_n(2^n) \cdot \frac{1}{2^n}$$

$$n \ln(2) \cdot \frac{1}{2^n}$$

$$= |_{n}(2) \sum_{n=1}^{\infty} \frac{n}{2^{n}}$$

$$=|_{n}(2)\sum_{n=1}^{\infty}\frac{n}{2^{n}}$$

$$= \underbrace{\xi'_{1} n \ln(2) \cdot \frac{1}{z^{n}}}_{n=1}$$