3 Book Notes Friday, January 22, 2021 3:51 PM
APPRications and Extensions of Ortimal Production and
Precong
simple (3rdegree) Price Discrimenation
charge different prices to different growts
grands must: 4 be identifiable
unde specific ususpess to Pay wresale should be Empossible
market w/ less clastic demand
P, = 3/1+3, MC P2 - 32/1+3, MC
Example: Two grows. Max Arafit W/discremenation P,=20-9, Pz=30-9z (Q)=.5(9,19z)2
Tuo Prices: TT = (20-9,)9, + (30-92)925(9,+92)2
$M_1 = MR_2 = MC$
Ml,=Ml Mlz=Ml 20-29,=9,492 30-292-9,492
20-74-70-79-
70+291 792 = 10+291
20-79, =9, +5+9,
9-99-97-97-51-8.75 9-3.75-79-3.75=16.25 P3-30-8.75=21.25
TT = 16.25 (3.75) + 21.25 (8.75)5 (3.75 + 8.75)2 = 168.75
one Price?
P, -20-9, 7 4-20-P, R=30-9, 7 92-30-P
Pr=Pr=P => 9=50-2P => P=2559
$\pi = (2559)959^2$ $\pi 2 = \pi C$
762=76C 25-9 = 9 9=15 <
19-755(12.5)=18.75 TT = 18.75 (12.5)5 (12.5) ² =156.25
Extra Profit 7 168,74-156.25 -12.5
Profit maximization when Auchases per Capita don't depend on market size
N-city size
Maximizing Profit with ~ Pre-determined caracity
Theaters, stadenns, etc
Profit mexemization with uncertainty
Expected Mofit
Value of Enformation with continuous Decissons
Peak God Pricing-Determining Caracity when demand
charter 16 for Game Theory
To max 17, MM=MG=C and MR4=MG4=C+K
TT-PH(9H)9H + PL(9L)9L-GL-(C+K)9H + 9H79L
bif 9469 then 94=96
MRH+MRL - ZC+K