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> Lecture 15: Managody Regulator al Managodistic Competition

Findry MR in a morropoly  $Q_d = 10-2P, \text{ what is MR?} \quad Q_d = 10-2P$   $IR = PQ = Q \cdot \left(\frac{10-Q}{2}\right) \qquad Q_2 + 2P = 10$ 

 $\frac{10Q - Q^2}{2} = \frac{10Q - Q^2}{2}$   $= 5Q - \frac{1}{2}Q^2 \frac{\partial TR}{\partial Q}$   $= \frac{10Q - Q^2}{2} \frac{\partial TR}{\partial Q}$ invertidant

MR = 5 - Q  $MC = 3 \Rightarrow vlut is Reynolds <math>Q = 2$ ,  $P = \frac{10 - 2}{2} = 4$ 

MR=MC

4

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Example: inest dens  

$$P = 60 - 20$$
 TC =  $50 + Q^2$   
What are CS and PS in monopoly?  
 $TR = Q(60 - 2Q)$  MC =  $2Q$   
=  $60Q - 2Q^2$ 

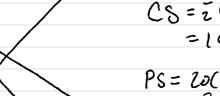
$$HR = 60 - 4Q$$

$$60 - 4Q = 2Q = 2Q = 10, P = 40$$

$$CS = \frac{1}{2}$$

20

$$CS = \frac{1}{2}(20)(10)$$
= 100



$$PS = 20(10) + \frac{1}{2}(20)(10)$$

$$D = 300$$

$$R = 0$$

$$R = 10 - VC$$

$$= PQ - Q^{2}$$

= 400-100 = 300

$$= 100$$

$$= 100$$

$$PS = 20(10) + \frac{1}{2}(20)(10)$$

P=60-22, TC=50+ 
$$q^2$$

Q identify personally competitive firms

What are C8 as PS here?

Find firm syphy

 $MC=2q$ , since  $P=MC$  in  $P.C$ .

 $P=2q \Rightarrow q=\frac{P}{2} \Rightarrow Q_S=4.SP$ 

Marks:

Half Dead

 $P=60-2Q$ 
 $P+2Q=60$ 
 $Q_1=30-0.SP$ 
 $Q_2=30-0.SP$ 
 $Q_3=30-0.SP$ 

$$CS = \frac{1}{2}(27)(54) = 729$$
  
 $PS = \frac{1}{2}(6)(27) = 81$ 

$$\frac{\partial q}{\partial q} = \frac{\partial q}{\partial q} \cdot \frac{q}{q} + P - MC = 0$$

$$\int \frac{\partial P}{\partial q} \cdot \frac{q}{q} \cdot \frac{1}{q} + 1 = \frac{MC}{P}$$

$$\int \frac{\partial P}{\partial q} \cdot \frac{Q}{P} \cdot \frac{1}{q} \cdot \frac{1}{p} = \frac{MC}{P} \cdot \frac{P}{P}$$

$$\int \frac{\partial P}{\partial q} \cdot \frac{1}{q} \cdot \frac{1}{p} \cdot$$

Lerne index=  $\frac{P-Hc}{P} = \frac{-1}{E_d} = L$ Lerne index=  $\frac{P-Hc}{P} = \frac{-1}{E_d} = L$ market to market clear, P

Natural Monopoly - one firm notes case - produs afact at a face A TC the if we had I + fins + high fixed costs + heary co-ones of such & - utility sypplies (ie. a water sypter) rentier, PEATC

Anti-trot lan Prohibitors against:

- Parallel conduct - implicat collosion - Predating pring

- Proce fraig

- Price discrimenta - es.

- differentiated products
- many firms
- free entry + exit, in LR
- Profit in LR = 0 P N=0 D-1 HR SHIFT LEFT, ATC DOEINT MOVE

Margislitic Competition

Hompelisticity competitive firm belieg like a mangertist - MR = M(
- Chase highest possible price In LP-DV ble at complian