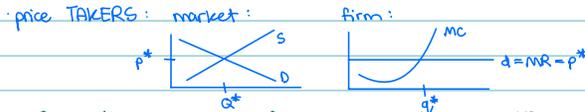


Chapter 14: Mkt structure & Power

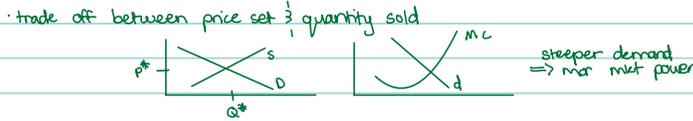
- Firm: webs of contracts between inputs & outputs that regulate production to maximize profits
- total costs INCLUDE opportunity costs  $\rightarrow \pi = TR - TC$
- market power: the extent to which a firm can charge a higher price w/o losing sales  $= PQ - TC$

Perfect Competition: many buyers & many sellers all producing an identical good  
 $\Rightarrow$  no market power

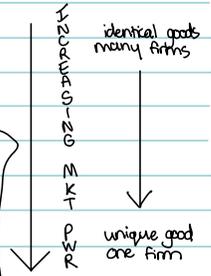
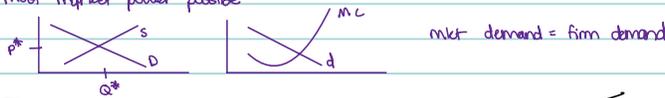


Monopolistic Competition: many small firms compete, each selling differentiated products  
 $\Rightarrow$  little market power

Oligopoly: handful of large sellers who sell homogeneous + differentiated products w/ some barriers to entry  
 $\Rightarrow$  some market power



Monopoly: one seller of a product w/ no close substitutes & barriers to entry to keep other sellers out  
 $\Rightarrow$  most market power possible

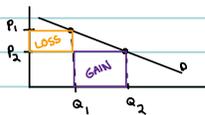


ALL MARKETS HAVE DOWNWARD SLOPING (or flat) DEMAND CURVES... steepness reflects mkt power

marginal revenue = additional revenue from 1 more unit sold

$\rightarrow \neq$  price in presence of market power bc selling 1 more unit requires price reduction in ALL units sold

$MR = MC$  is profit maximizing  $\Rightarrow P \neq MC$  in presence of mkt power



$MR = MC < P$

$MR = [P_2(Q_2 - Q_1) - (P_1 - P_2)(Q_1)] / \Delta Q$

$= [P_2 Q_2 - P_2 Q_1 - P_1 Q_1 + P_2 Q_1] / \Delta Q$

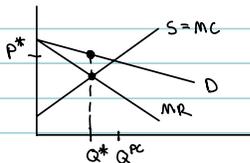
$= [P_2 Q_2 - P_1 Q_1] / \Delta Q$

$= \frac{P_2 Q_2 - P_1 Q_1}{Q_2 - Q_1} = \frac{P_2 \Delta Q + P_2 Q_1 - P_1 Q_1}{\Delta Q} = P_2 + \frac{(P_2 - P_1) Q_1}{\Delta Q} = \frac{P_2 - (P_1 - P_2) Q_1}{\Delta Q}$

$= \frac{\Delta TR}{\Delta Q}$

= output effect - discount effect

$= P_2 - \frac{(P_1 - P_2) Q_1}{\Delta Q}$



MR is steeper than demand curve  
 (2x steeper with linear curves)  
 MR decreases faster than P

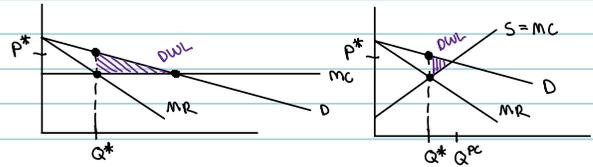
Q	P	TR	MR
1	3	3	3
2	2	4	1
3	1	3	-1

setting prices & quantities

- set  $Q^*$  such that  $MR = MC$
- set P such that  $Q(P) = Q^*$  (demand curve)

### Problems w/ Market Power

- sellers exploit their power by lowering  $q$  to raise  $p$ 
  - mkt pur => higher  $p$
  - mkt pur => lower  $q$  (inefficiency)
  - mkt pur => larger  $\pi$
  - mkt pur => less incentive to lower cost



### Public Policy to Restrain Mkt Pur

- ensure competition thrives
  - anti collusion laws to only allow good measures
  - mergers
    - ← competitive (good for consumers, bad for rival firms)
    - ← anticompetitive (bad for consumers, good for rival firms)
- minimize harm from mkt power
  - price ceilings