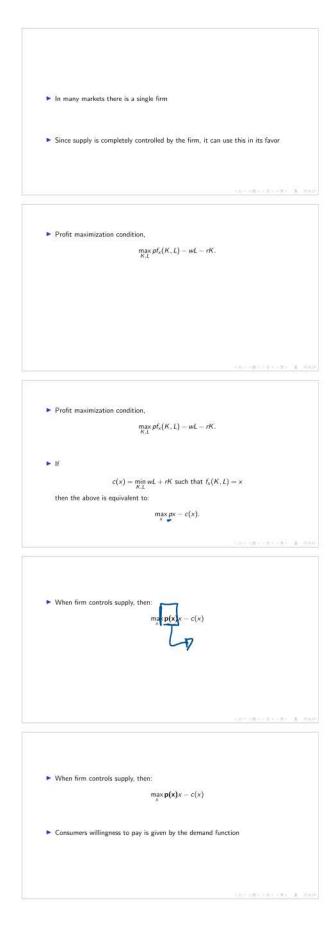
Lecture7

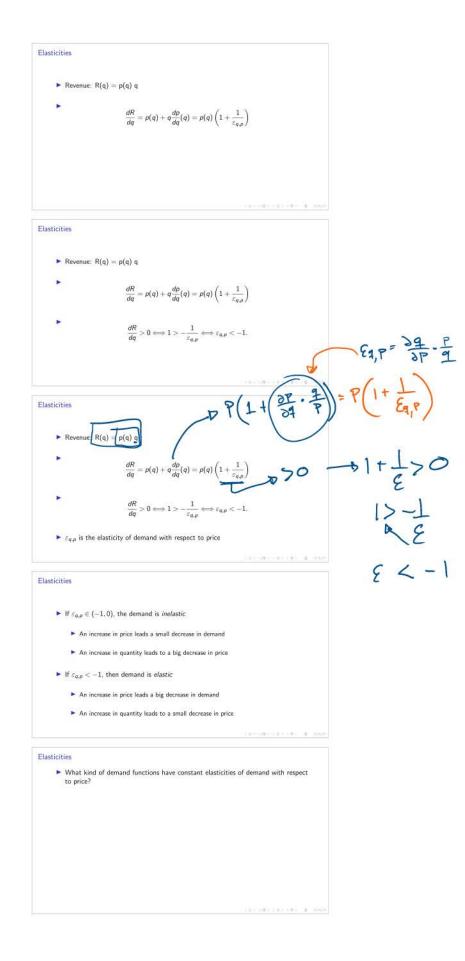
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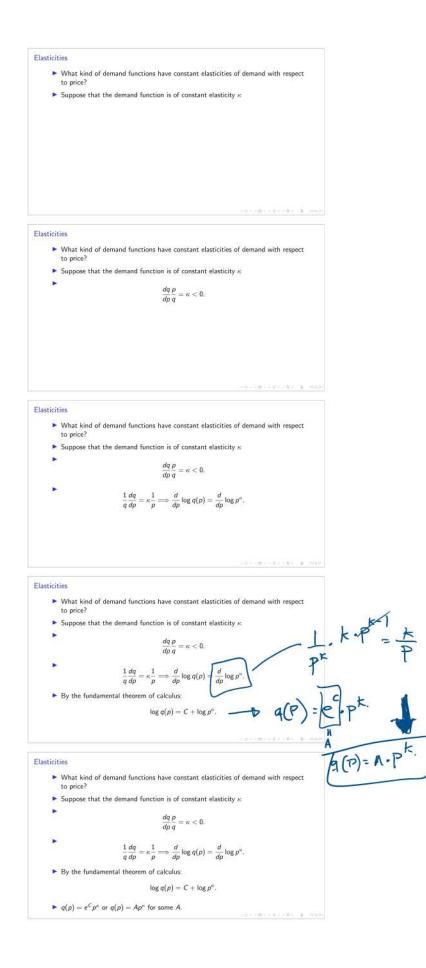


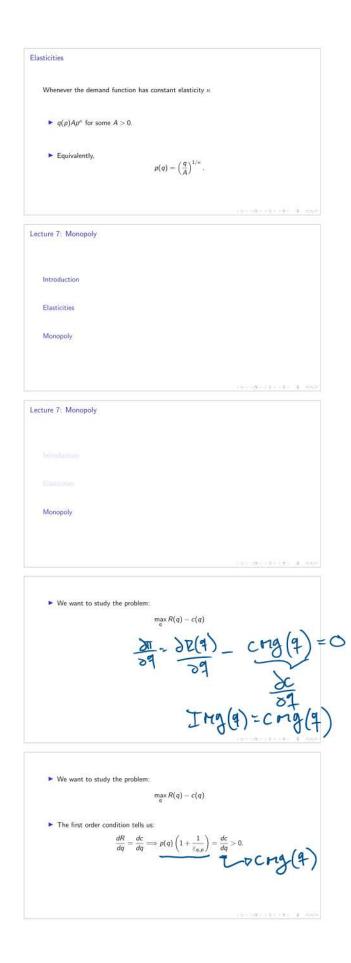
Lecture 7: Monopoly		
Mauricio Romero		
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Lecture 7: Monopoly		
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Lecture 7: Monopoly		
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Firm is faced a problem like the following:		
$\max_{K,L} p_x f_x(L,K) - wL - rK.$		
▶ The firm's choice of <i>L</i> and <i>K</i> does not affect the prices <i>p</i> ,	w r	
This is called <i>price-taking</i> behavior		
Justified if the the market is composed of many small firms	\$	

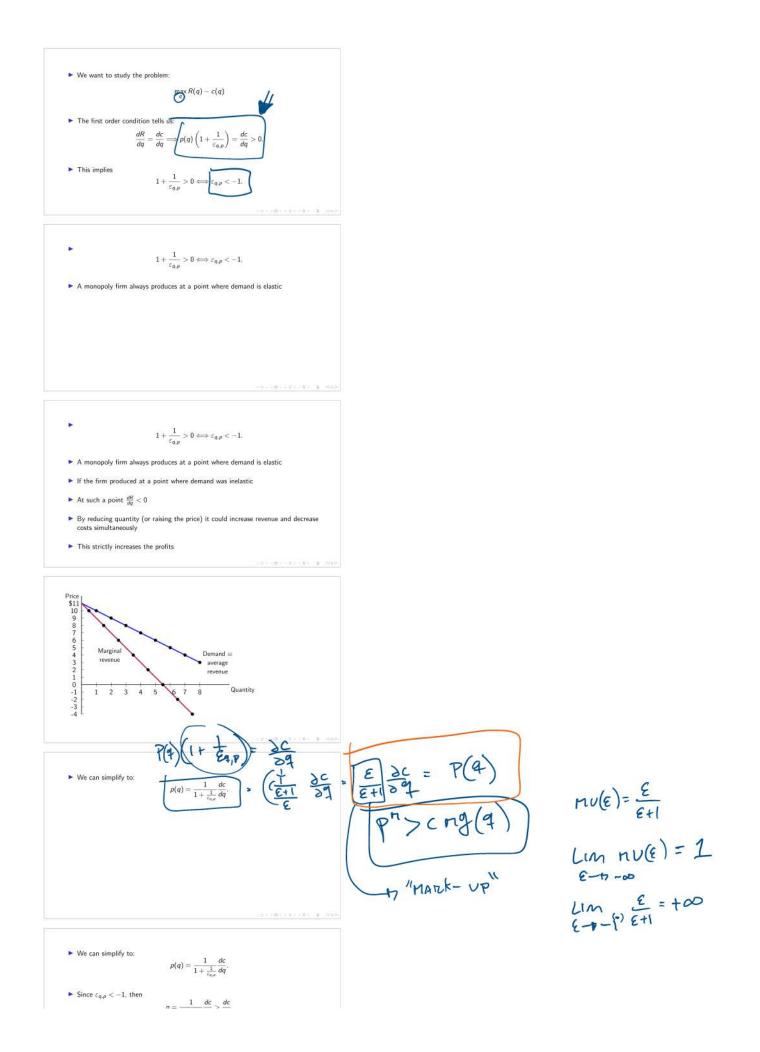


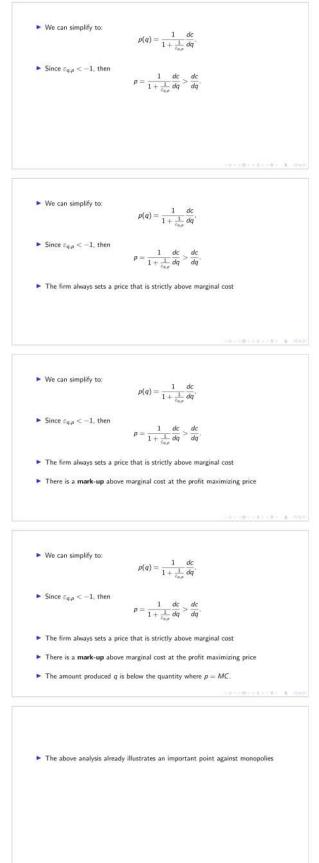
► When firm controls supply, then:	a F	ALLAD	
$\max_{x} \mathbf{p}(\mathbf{x}) x = 0$	-(x)	4 62	
Consumers willingness to pay is given by the operation of the second	lemand function		
• $p(x)$ is the demand function			
		37	
We can also represent the problem as:			
$\max_{\rho} pq(p) - c($	$q(\rho))$		
• $q(p)$ is the inverse demand function			
Lecture 7: Monopoly			
Introduction			
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Monopoly			
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Elasticities			
▶ Revenue: $R(q) = p(q) q$			
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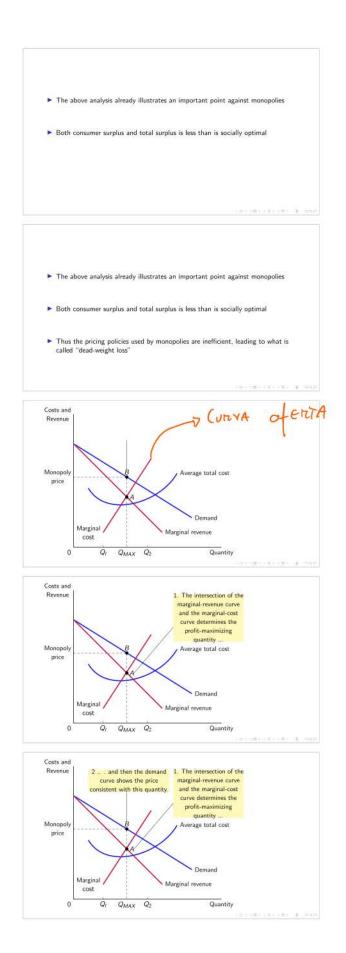


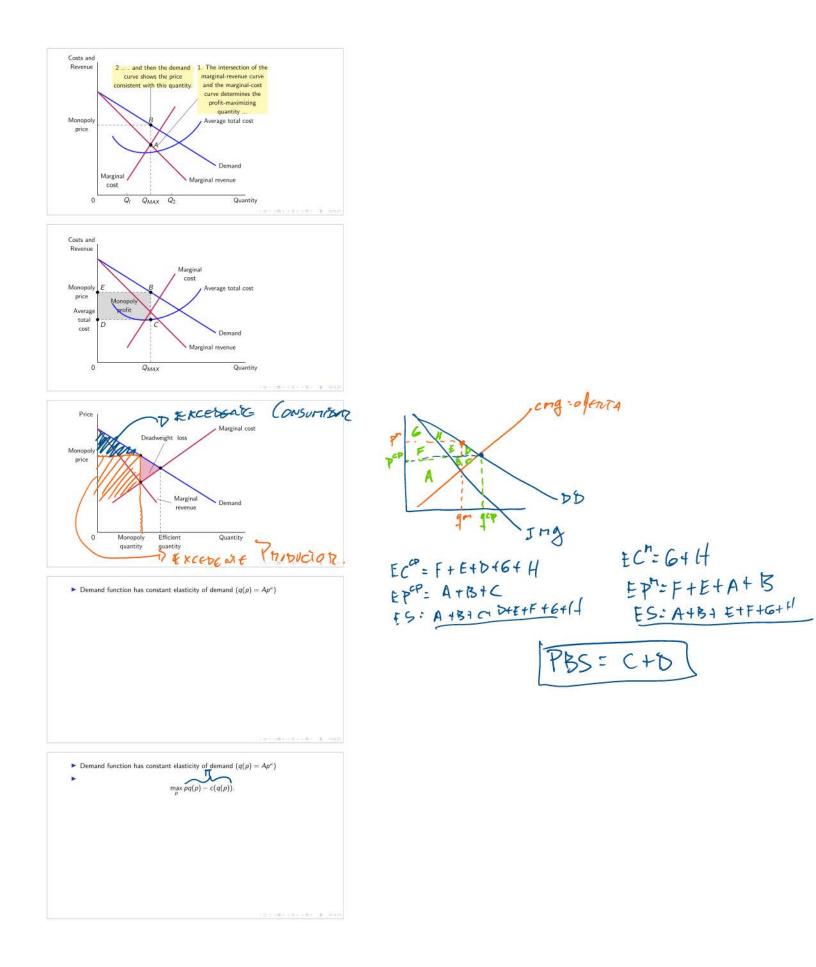


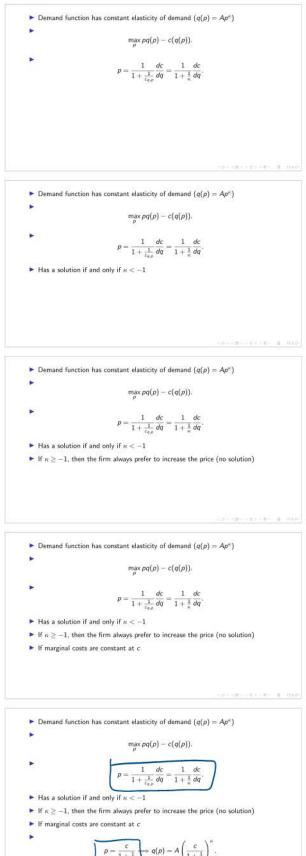


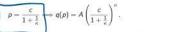
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If profits are positive, why aren't more firms entering the market?

- Natural monopoly (Microsoft)
- Patents
- Political Lobbying: Televisa, Azteca, etc.
- Regulation (Moody and S & P's)
- Demand externalities
 - Classic network externalities (Microsoft): Microsoft Word and Windows are only valuable if a lot of consumers use it.
 - Two-sided markets (Ticketmaster or Uber): consumers value these markets only if there is enough supply of tickets. Similarly suppliers only value these markets if there is demand to meet the supply.