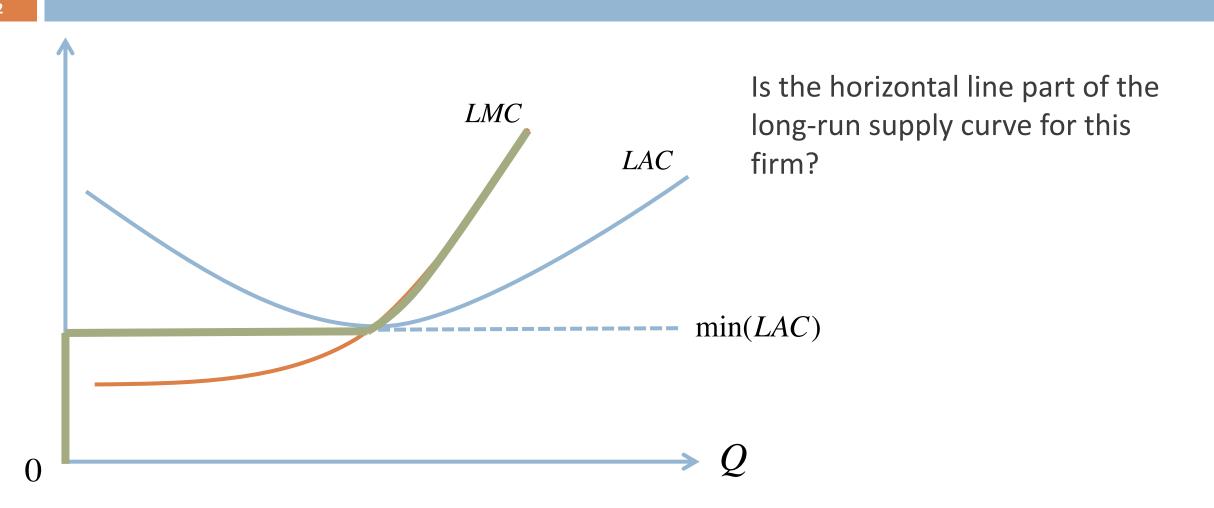
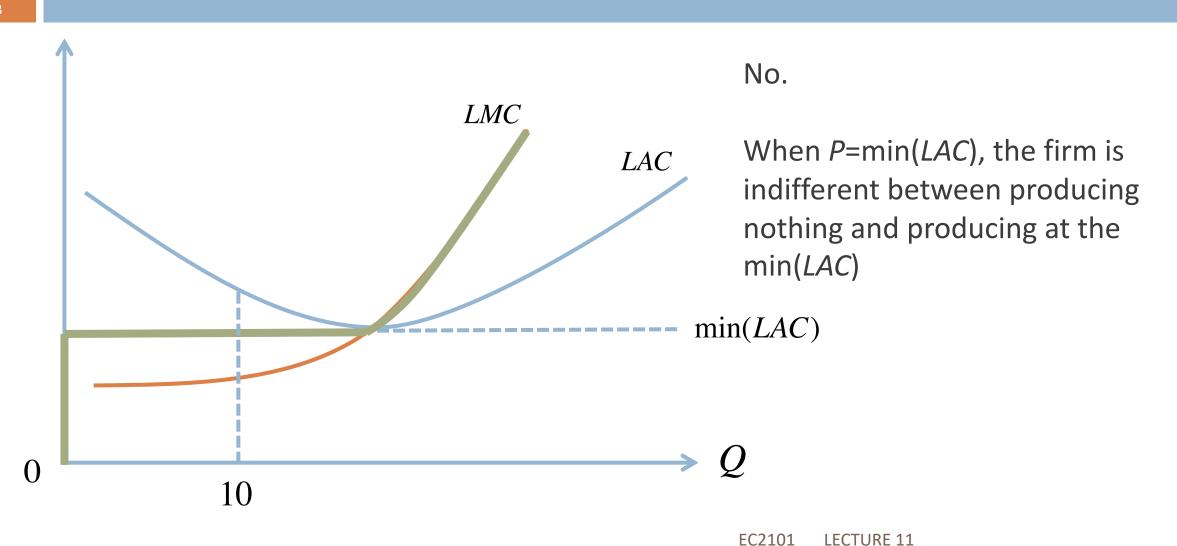
LECTURE 11 PERFECT COMPETITION IN THE LONG RUN

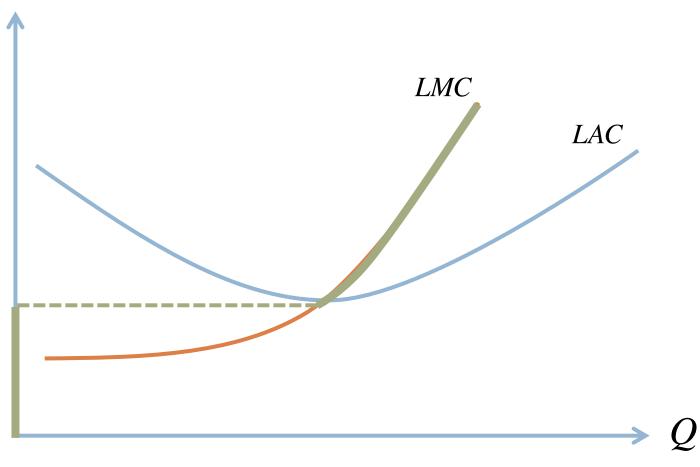
Question 1: Long-run Supply Curve



Question 1: Solution

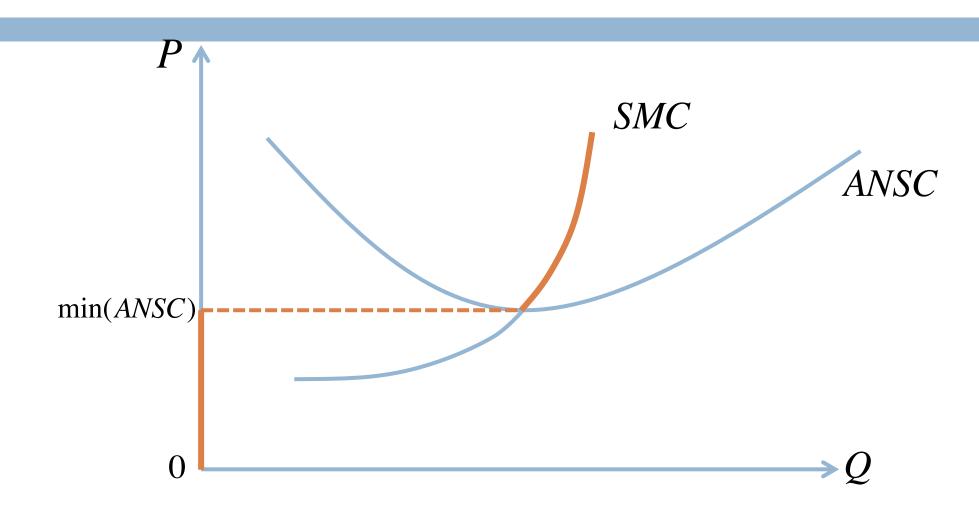


Question 2: Short-run vs. Long-run Supply Curve



What is the difference between this graph and the supply curve for each firm in the short run?

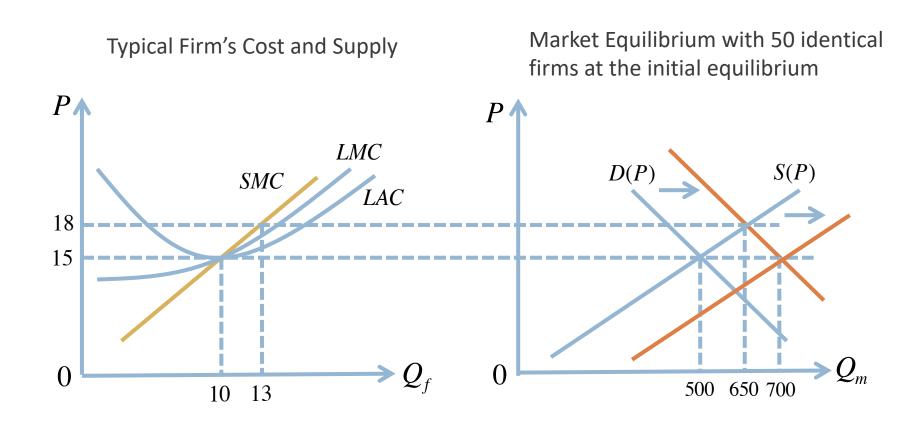
Question 2: Short-run Supply Curve in Graph



Question 2: Solution

- When the firm produces
 - Short run: supply curve is the *SMC* curve
 - Long run: supply curve is the *LMC* curve
- When does the firm stop producing?
 - Short run: when price is below min(*ANSC*)
 - Not min(SAC)
 - Long run: when price is below min(*LAC*)

Question 3: Increase in Demand in a Constant-Cost Industry



Equilibrium price increases in the short run but goes back to the same level in the long run

Question 3: How to explain the change in total quantity?

	Before demand increase	After demand increase	
	Long-run equilibrium	Short-run equilibrium	Long-run equilibrium
Price	15	18	15
Total quantity	500	650	700
Each firm's output	10	13	10
Number of firms	50	50	70
		EC2101 LECTURE 11	

Question 3: Solution

- From 500 to 650
 - Short run response after the demand shock
 - No entry and exit yet
 - Each firm produces more because price increases from 15 to 18
- From 650 to 700
 - Long run response after the demand shock
 - Price drops from 18 to 15 due to entry
 - More firms in the market
 - Is each firm producing more?

Question 4: Long-run Equilibrium with Two Types of Firms

- Consider the example in the lecture
- Suppose every manager is paid the reservation wage of \$70000
 - The firm with the great manager has lower cost
- Suppose for a firm with an average manager (high-cost firm)
 - \blacksquare min(LAC)=20
- For the firm with the great manager (low-cost firm)
 - □ min(*LAC*)=16
- □ What happens when *P*=16?

Question 4: Solution

- All potential entrants have average managers
 - There is only 1 great manager
 - At the price of 16, no one has incentive to enter
- Existing high-cost firms want to leave
 - They are making negative profit
- □ 16 is not the long-run equilibrium price if both types of firms are in the market

Q&A on Lecture 11