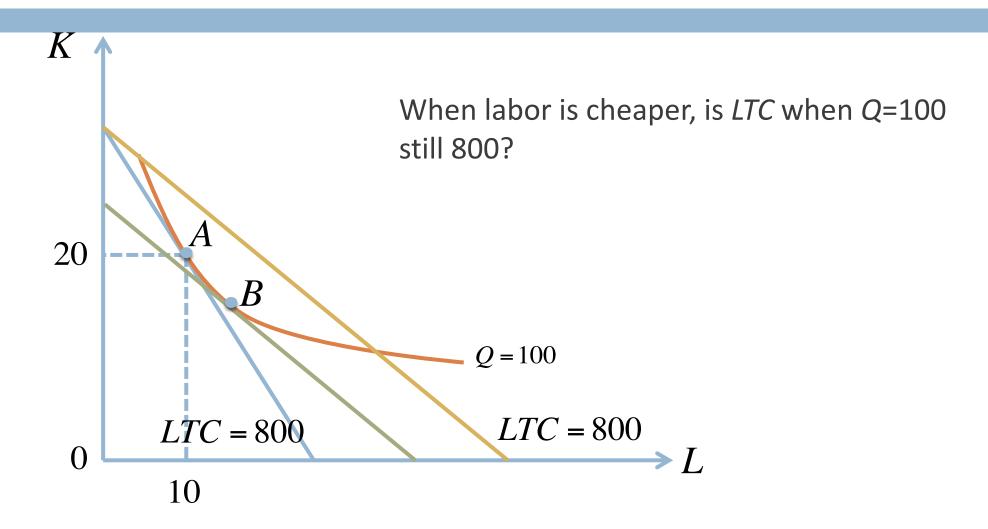
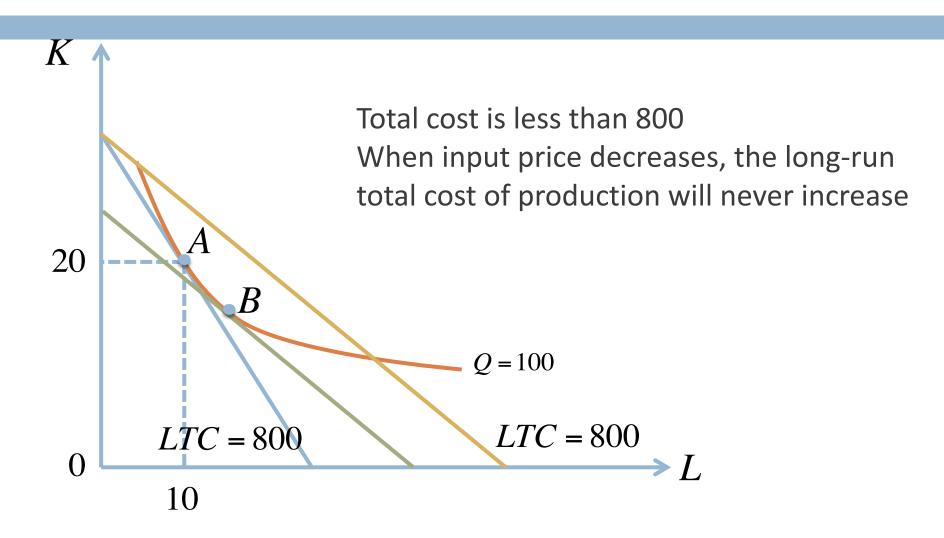
# LECTURE 9 COST IN THE LONG RUN SHORT-RUN COST VS. LONG-RUN COST

#### Question 1: Input Price and LTC



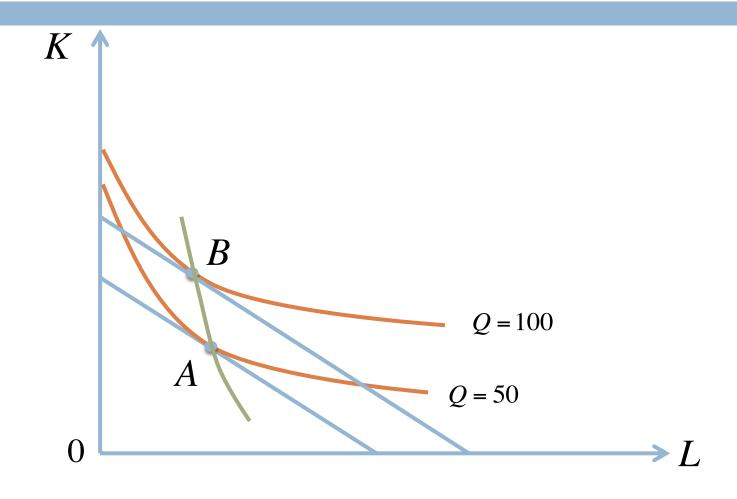
#### Question 1: Solution



#### Question 2: Expansion Path with Inferior Input

- □ <u>Definition 9.2</u> *Inferior input* 
  - The cost-minimizing quantity of the input decreases when output increases
  - Holding input prices fixed
- Suppose labor is inferior and capital is normal
- □ Is the long-run expansion path downward sloping or upward sloping?

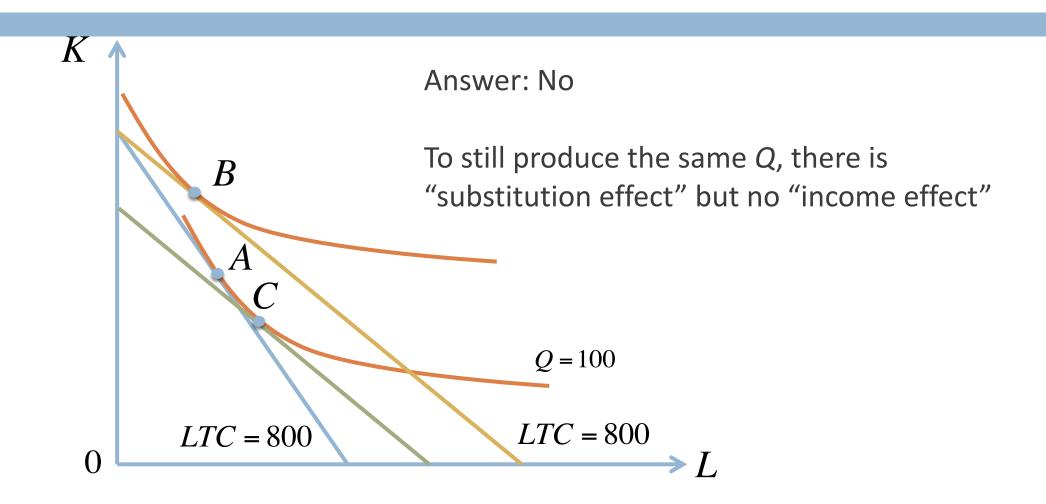
#### Question 2: Solution



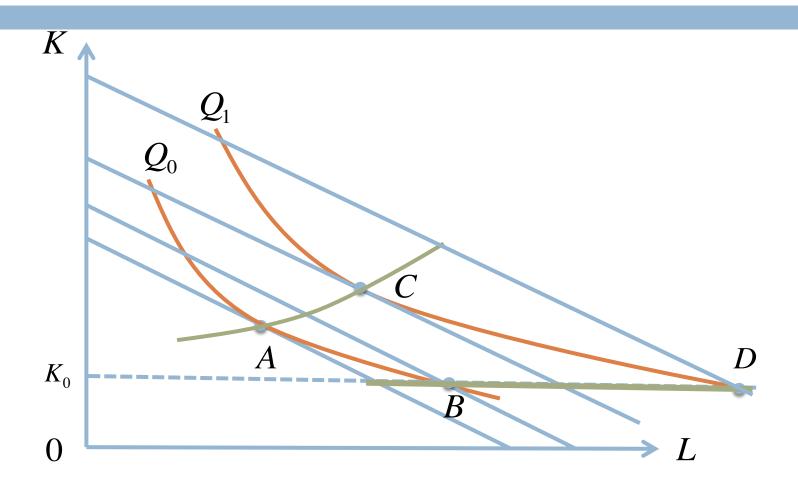
#### Question 3: Giffen Input

- □ In consumer theory, we have Giffen goods
  - When price decreases, consumption of the Giffen good drops
- Do we have Giffen inputs?
- Is it possible for labor to be a Giffen input?
  - That is, when labor becomes cheaper, to produce the same quantity of output, the firm uses less labor?

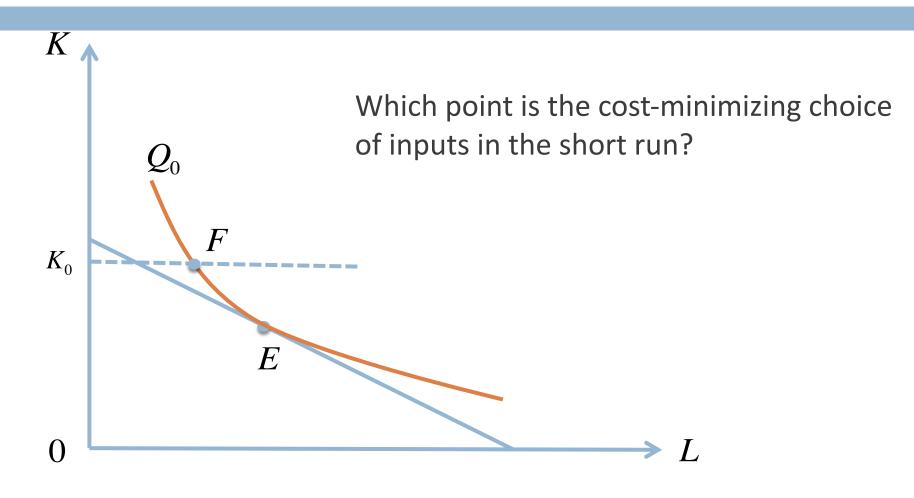
#### Question 3: Solution



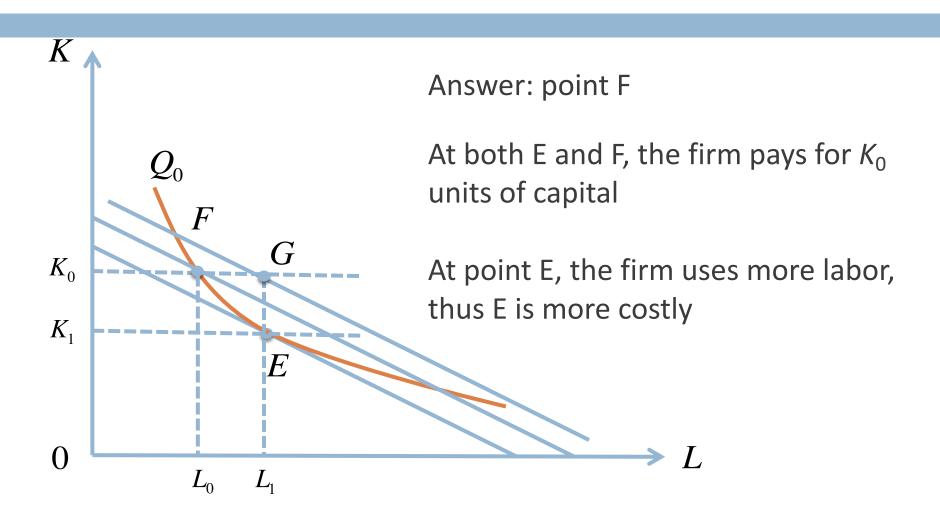
#### Question 4: Short-Run Cost-Minimizing Choice of Inputs



## Question 4: Short-Run Cost-Minimizing Choice of Inputs Cont'



#### Question 4: Solution



### Q&A on Lecture 9