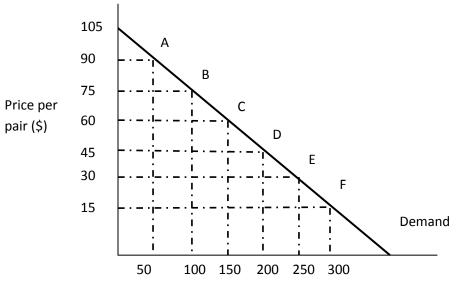
HW Questions for Chapter 5 "Elasticity"

1. A department store has estimated the demand curve for a popular brand of women's dress shoes as a function of price. Use the diagram to answer the questions that follow.



Dress shoe sales per week

- a. Calculate demand elasticity between points A and B, between points C and D, and between points E and F.
- b. If the store currently charges a price of \$75, then increase that price to \$90, what happens to total revenue from shoe sales? Repeat the exercise assuming the initial price is increased from \$45 to \$60. From \$15 to \$30.
- 2. For each of the following scenarios, decide whether you agree or disagree and explain your answer.
 - a. A. If the elasticity of demand for cocaine is 0.2, and the Drug Enforcement Administration succeeds in reducing supply substantially, causing the street price of the drug to rise by 50%, buyers will spend less on cocaine.
 - b. Every year Christmas tree vendors bring tens of thousands of tress from the forests of New England to New York City and Boston. During the last two years, the market has been very competitive; as a result, price has fallen by 10%. If the price elasticity of demand was -1.3, vendors would lose revenues altogether as a result of the price decline.

- 3. Studies have fixed the short-run price elasticity of demand for gasoline as the pump as 0.20. Suppose that international hostilities lead to a sudden cutoff of crude oil supplies. As a result, U.S. supplies of refined gasoline drop 10%.
 - a. If gasoline were selling for \$2.60 per gallon before the cutoff, how much of a price increase would you expect to see in the coming months?
 - b. Suppose that the government imposes a price ceiling on gas at \$2.60 per gallon. How would the relationship between consumers and gas station owners change?