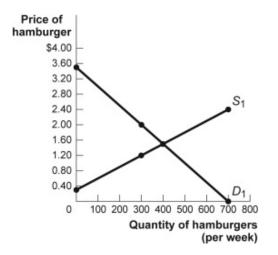
CH-310-A Microeconomics - Theory and Policy

Chapter 4 of Krugman and Wells

Producer surplus



The figure shows the weekly market for hamburgers at the Tasty Burger Palace. If the Palace sells 400 hamburgers, producer surplus will equal:

Total surplus

If total surplus falls, which of the following must have occurred?

- (a) There was an increase in demand or a decrease in supply.
- (b) There was an increase in demand and an increase in supply.
- (c) There was a decrease in demand or a decrease in supply.
- (d) There was a decrease in demand and an increase in supply.

The market for cucumbers

Assume that the demand for cucumbers is a function of their price, P, and consumer income, I, while the supply of cucumbers is a function of their price and the number of rainy days in the summer, R. The demand and supply curves for cucumbers are given by: Demand: $Q_D=100,000-50P+2I$

Demand: $Q_D = 100,000 - 50P + 2I$ Supply: $Q_S = -10,000 + 20P - 2000R$

- (a) If I = 20,000 and R = 10, what is the equilibrium price and quantity?
- (b) How does the answer change if rain increases to 15? What is the new equilibrium price and quantity?

Consumer surplus

Leon goes to the clothing store to buy a new T-shirt, for which he is willing to pay up to \$10. He picks out one he likes with a price tag of exactly \$10. When he is paying for it, he learns that the T-shirt has been discounted by 50%. What is his consumer surplus?

Consumer surplus

Alberto goes to the CD store hoping to find a used copy of Nirvana's Greatest Hits. He is willing to pay up to \$10 for the copy. The store has one copy selling for \$10, which he purchases. What is his consumer surplus?

Consumer surplus

After soccer practice, Stacey is willing to pay \$2 for a bottle of mineral water. The 7-Eleven sells mineral water for \$2.25 per bottle, so she declines to purchase it. How much consumer surplus is genrated?

Individual and market demand curve

Consider a market with two people, Maria and Stephan, who both eat apples. Maria's demand curve for apples is:

$$Q_m = 15 - 5P$$

Stephan's demand curve for apples is:

$$Q_s = 20 - 2P$$

What is the market demand curve for apples? Graph the two individual demand curves and the market demand curve.