
- 1. How would each of the following circumstances impact the price and quantity of beef sold?
 - a. The price of chicken falls
 - b. The price of grazing land falls
 - c. There is a report that beef consumption increases longevity
 - d. Average incomes rise
 - e. The price of leather, which is produced from hides of beef cattle after they are slaughtered, rises
 - f. A mandatory animal identification system is implemented and costs producers an extra \$3.00 per animal to implement
 - g. Increased beef imports from South America flood the market
 - h. Mad cow disease is found in an American beef cow in Washington
- 2. Currently, 21 states have a tax specifically focused on soda in an effort to reduce obesity and other adverse health outcomes (for more information, see <u>Block and Willett, 2012</u>). Assume a 6.0% sales tax is levied on the price of all soda.
 - a. What is the implied impact on the equilibrium quantity and price for soda?
 - b. How might the equilibrium price and quantity change for soda substitutes such as juices and sugarflavored water?
 - c. A recent study indicated that the demand for low-calorie soda is more elastic than regular soda.
 - i. Explain what this means.
 - ii. How might the response be different for low-calorie soda consumption versus regular soda consumption when considering this sales tax.
 - d. Is this soda tax likely to have a positive impact on lowering obesity rates in the areas it is implemented? Explain why or why not.
- 3. Suppose you have 30 years of life which can be allocated between leisure and working at a wage of \$10,000 per year.
 - a. Draw your budget constraint between "leisure" and "lifetime income"
 - b. Suppose now that you are given the option to attend college, in which case you will have only 26 years available for leisure and working, but your wage will be \$15,000 per year. Suppose that you are indifferent between attending college and not attending college. Illustrate this situation with budget lines and indifference curves.
 - c. *True or False*: If you attend college, you will definitely spend more time working than if you do not attend college. Justify your answer.
- 4. Your monthly income is \$48, which you spend on beer and 'other goods.' A six-pack of beer costs \$4 and you buy 5 six-packs per month. One day the beer salesman offers you a deal: "If you pay \$10 per month to be in the beer club, you'll be allowed to buy six-packs of beer for \$2." Should you join the club? Justify your answer with indifference curves.