CHAPTER 3: Preferences and Utility

3.1 Indifference curves

- a. may sometimes intersect.
- b. are contour lines only of a linear utility function.
- c. are convex if the utility function is quasi-concave.
- d. shift when prices change.

ANSWER: c

- 3.2 For an individual who consumes only two goods, *x* and *y*, the opportunity cost of consuming one more unit of *x* in terms of how much *y* must be given up is reflected by
 - a. the individual's marginal rate of substitution.
 - b. the market prices of x and y.
 - c. the slope of the individual's indifference curve.
 - d. none of the above.

ANSWER: b

- 3.3 If bundles of goods *A* and *B* lie on the same indifference curve, one can assume the individual
 - a. prefers bundle *A* to bundle *B*.
 - b. prefers bundle *B* to bundle *A*.
 - c. enjoys bundle *A* and *B* equally.
 - d. bundle *A* contains the same goods as bundle *B*.

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ANSWER: c

Questions 3.4 and 3.5 refer to an individual whose utility function is given by

U(x, y) = 4x + 2y

3.4 With this utility function, the bundle (3,2) provides the same utility as the bundle

a. (2, 3).
b. (2, 4).
c. (2, 5).
d. (3, 3).

ANSWER: b

- 3.5 For this utility function, the *MRS*
 - a. depends on the values of *x* and *y*.
 - b. is always 0.
 - c. is always 2.
 - d. is always 4.

ANSWER: c

3.6 Which of these utility functions represent the same preferences as $U(x, y) = \sqrt{xy}$?

- a. $U(x, y) = 10\sqrt{xy}$.
- b. U(x, y) = xy.
- c. $U(x, y) = \ln x + \ln y.$
- d. All of the above represent the same preferences.

ANSWER: d

3.7 If utility is given by $U(x, y) = \sqrt{xy}$, then the person's *MRS* at the point x = 5, y = 2 is given by

a. 0.4.

b. 1.0.

- c. 2.5.
- d. 5.0.

ANSWER: a

- 3.8 If utility is given by $U(x, y) = x^2 + 2xy + y^2$, this person's indifference curves are
 - a. parabolas.
 - b. hyperbolas.
 - c. concentric circles.
 - d. straight lines.

ANSWER: d

- 3.9 Which of the following utility functions best represents the idea that two goods, *x* and *y*, are perfect complements?
 - a. $U(x, y) = \sqrt{xy}$.
 - b. U(x, y) = x + y..
 - c. U(x, y) = |x y|..
 - d. $U(x, y) = \min(x, y)$.

ANSWER: d

3.10 If an individual's utility function is quasi-concave, his or her MRS will

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4

Chapter 3: Preferences and Utility

- a. diminish as *x* is substituted for *y*.
- b. increase as *x* is substituted for *y*.
- c. be undefined except in special cases.
- d. always depend only on the ratio of x to y.

ANSWER: a

- 3.11 If utility is given by $U(x, y) = \min(x, 3y)$ then the bundle (3,2) provides the same utility as the bundle
 - a. (1, 3).
 - b. (2, 3).
 - c. (4, 1).
 - d. (4, 2).

ANSWER: c

- 3.12 Which of the following utility functions *would not* be consistent with the notion that *x* and *y* are both "goods" with positive marginal utilities?
 - a. $U(x, y) = x^2 y$.
 - b. U(x, y) = x + y.
 - c. $U(x, y) = x\sqrt{y}$.
 - d. U(x, y) = x/y.

ANSWER: d

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