Managerial Economics and Organizational Architecture 6th edition Brickley Test Bank

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Chapter 02
Economist's View of Behavior

Essay Questions

1. It is commonly believed that the best ways to motivate an employee are (1) to improve the quality of the workplace and (2) to make the employee feel like he/she is part of the company. How would an economist analyze these statements?

Answer: An economist would be skeptical about these claims. The economic model shows that people respond to incentives. The economic model implies that desired changes in employee behavior can be achieved by changing the relevant costs and benefits of actions by employees.

Difficulty: 03 Hard
Blooms: Analyze
AACSB: Analytic
Topic: Economic Behavior: An Overview

2. Stella Ann Freeman is having a difficult time deciding whether or not to purchase a new car. How would understanding the concept of opportunity cost help her make a decision?

Answer: Opportunity cost is the value of the best forgone alternative. The opportunity cost of purchasing a new car is the value of what is given up to purchase the car.

Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

3. Jim Range has to choose between buying more soda or more pasta for the week. He has a fixed income and he knows the prices of both products. Using indifference curves and budget constraints, illustrate the amount of soda and pasta that Jim will purchase. When he gets to the store, he finds that the price of soda has fallen dramatically. How does this change his optimal purchase? Can a general rule of human behavior be developed from this graphical example?

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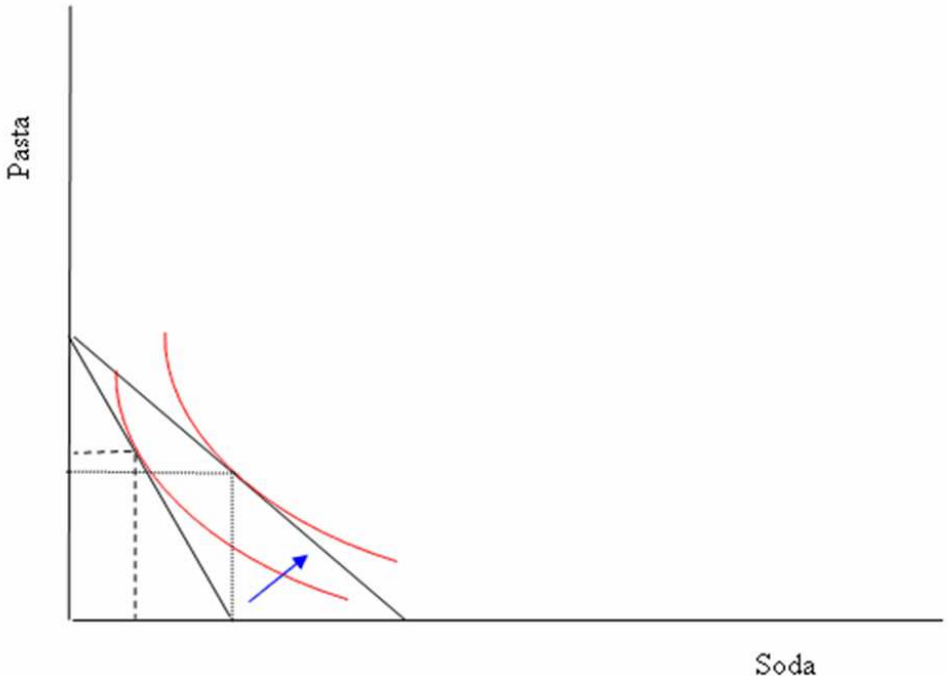
Answer: If quantity of soda is measured along the horizontal axis and that of pasta is measured along the vertical axis, a reduction in the price of soda pivots out Jim's budget constraint along the horizontal axis. His new consumption bundle, containing a lot more soda, is located on the higher indifference curve that lies to the right of his initial highest attainable indifference curve. In response to a lower price, he changes his behavior to buy more of the good with the lower relative price. Consumers generally respond to the incentives given by prices. At lower prices, consumers demand greater amounts. Depending on the location of the indifference curve, he may choose to consume more of both pasta and soda.



Difficulty: 03 Hard
Blooms: Apply
AACSB: Analytic
Topic: Graphical Tools

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4. Patrick consumes only two goods: Celtic Music concerts and Celtic Springs Water. Patrick earns $100 per month at his part-time job in the library. The price of Celtic concerts is $10. The price of Celtic Springs Water is $2. Patrick currently goes to 5 Celtic concerts and consumes 25 bottles of Celtic Spring Water in a month.
(a) Draw Patrick's budget constraint and optimal consumption bundle such that Celtic concerts are measured on the horizontal axis.
(b) In April, Patrick receives a 5 percent pay increase. Inflation raises the price of concerts to $10.50 and the price of Celtic Springs Water to $2.10. Draw Patrick's new budget constraint and optimal consumption bundle, considering that the number of Celtic concerts is measured along the horizontal axis. How many Celtic concerts does he attend in April? How many bottles of water does he drink in April?

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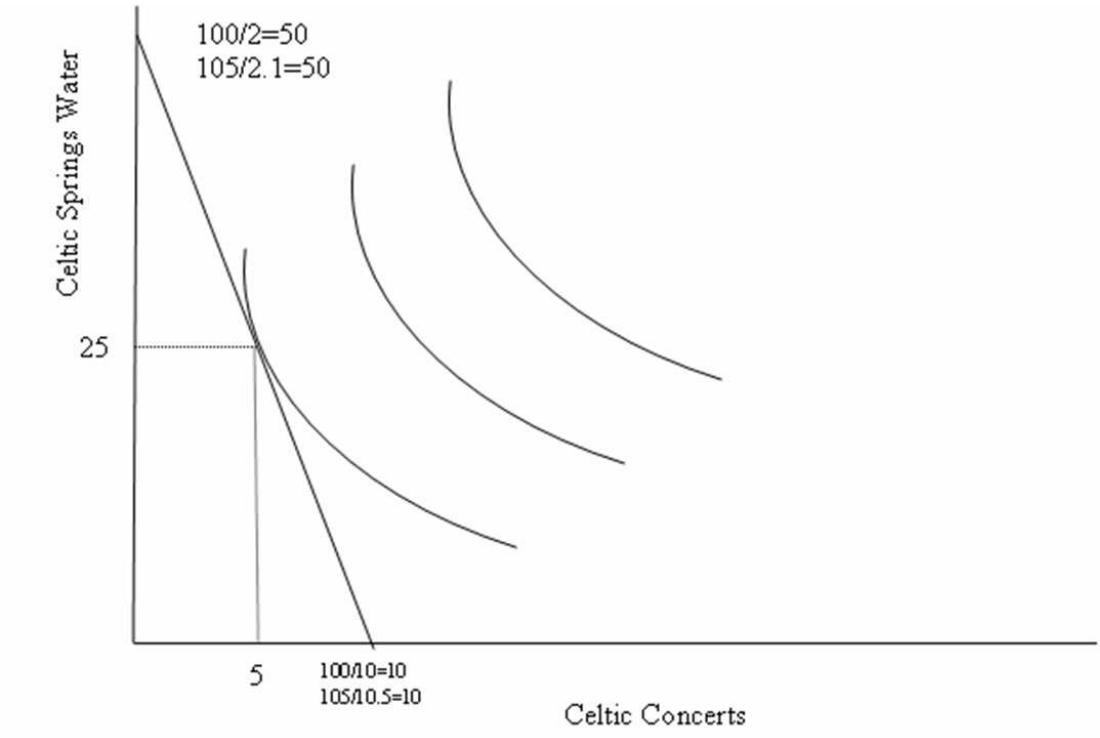
Answer:

(a)



(b) His budget constraint does not change. The new vertical intercept of 50 bottles of water is the same as the old vertical intercept of 50 bottles of water. The new horizontal intercept of 10 concerts is the same as the old horizontal intercept of 10 concerts. The relative price of Celtic concerts is always 5 bottles of Celtic Springs Water. He consumes 5 Celtic concerts and 25 bottles of Celtic Spring Water in April.

Difficulty: 03 Hard
Blooms: Apply
AACSB: Analytic
Topic: Graphical Tools

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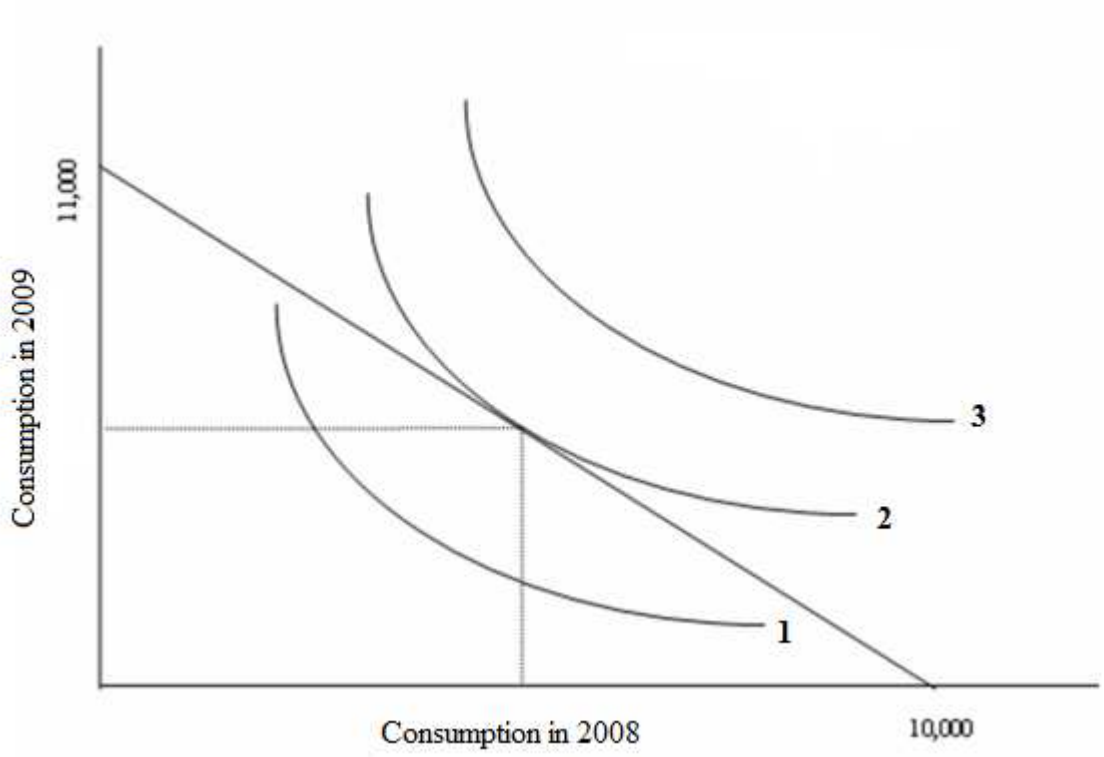
5. Ali inherits $10,000 from his great-great aunt in 2008. His great-great aunt's will requires that Ali spend the money before December 31, 2009. He has two spending options: He can either spend the amount in 2008 or in 2009. Suppose this is Ali's only source of income and the interest rate on loans or savings is 10 percent.
(a) How much could Ali spend in 2008 if he only consumes in 2008? How much could Ali spend in 2009 if he only consumes in 2009?
(b) What is the opportunity cost of consuming $1.00 in 2008 in terms of forgone consumption in 2009? Draw Ali's budget constraint and optimal consumption bundle, considering that the spending in 2008 is measured along the horizontal axis.
(c) Ali decides to spend $6,000 in 2008 and $4,400 in 2009. Show this optimal consumption bundle using a budget constraint and indifference curve diagram.

Answer:
(a) If Ali only consumes in 2008, he can spend $10,000 in 2008, whereas if he consumes only in 2009, he can spend $(1 + 0.10) \times 10{,}000 = (1.10) \times 10{,}000$ or $11,000 in 2009.
(b) You give up $1.10 in 2009 consumption for every dollar you spend in 2008.



(c)

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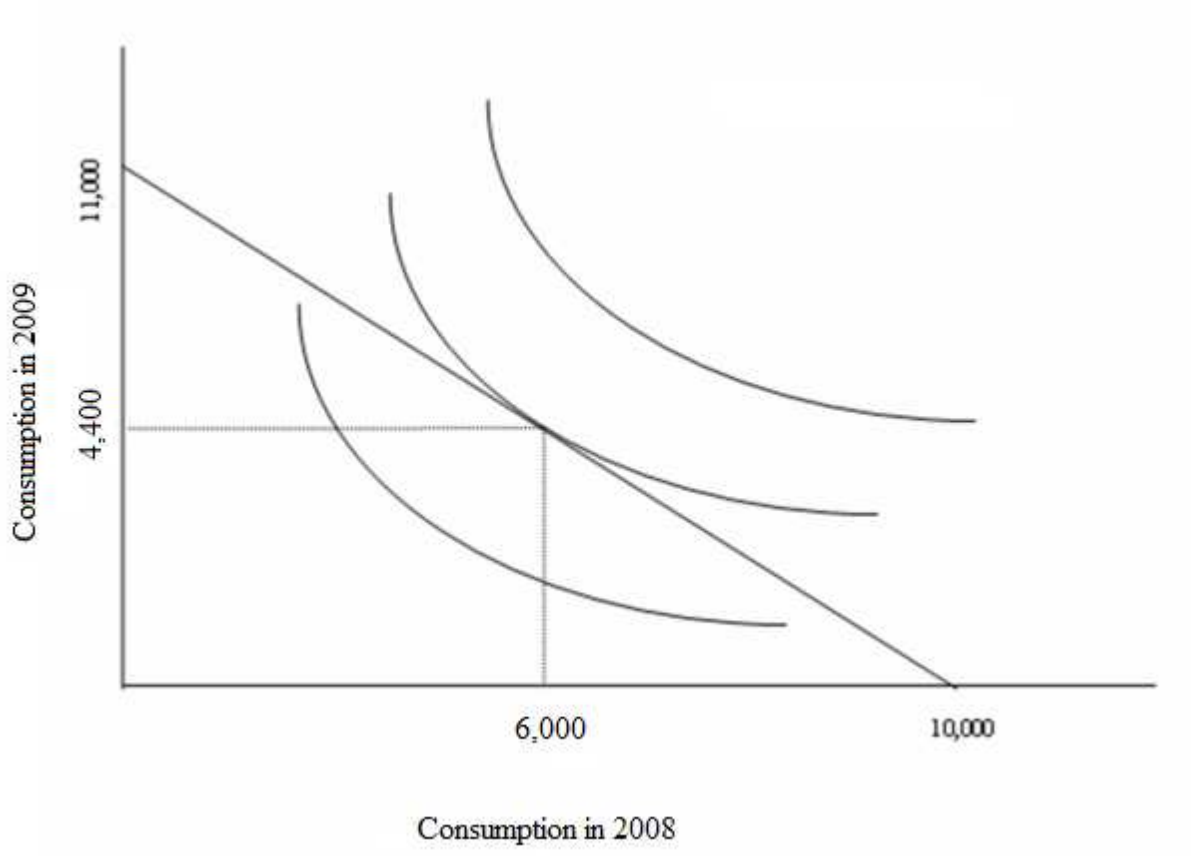

Difficulty: 03 Hard
Blooms: Apply
AACSB: Analytic
Topic: Graphical Tools

6. What is the relationship between the slope of the budget line and the notion of opportunity cost?

Answer: The slope of the budget line represents the opportunity cost of one good in terms of the other. Suppose we have two goods: fish and chips. If the price of fish (P_f) is \$2 and the price of chips (P_c) is \$8, then the price ratio $-P_c/P_f = -8/2 = -4$. This means that if I want 1 more unit of chips, I have to give up 4 more units of fish. Therefore, the opportunity cost of 1 unit of chips is given by the slope, -4, in terms of the number of fish that has to be given up.

Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

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7. What does the tangency between an indifference curve and the budget line determine?

Answer: The point of tangency between the budget line and an indifference curve tells us that for a given income level, that point is the best combination for the consumer. That combination of goods is the one that will maximize utility, given the consumer's income. Since the budget line is straight, linear, and downward sloping, its slope is the price-ratio, and this represents the opportunity cost of one good in terms of the other. Indifference curves are convex to the origin, and the slope of an indifference curve is different at each point. Further, the slope of an indifference curve at any point can be found by drawing a tangent at that point. This slope tells us the subjective opportunity cost for the consumer, of one good in terms of the other. The point of tangency between the budget line and an indifference curve brings the two opportunity costs together and sets them equal to each other. Any other combination is hence inefficient from the consumer's point of view.

Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

8. Contrast the good-citizen model with the economic model to explain the reason why people engage in charitable behavior.

Answer: The good-citizen model views charitable behavior as the result of individuals placing the good of society ahead of their own well-being. The model assumes that if individuals knew how best to improve society they would choose to help others. The economic model holds that people engage in charitable behavior as part of their utility maximization, given constraints. In contrast to the good-citizen model, the economic model successfully predicts that charitable donations respond to changes in the cost of charitable donations created by changes in the tax code.

Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Alternative Models of Behavior

9. Wanda Weeks has decided to stay in a lower-paying position with a local electric company rather than accept a much higher-paying job with a new information technology company. Use a risk model to explain her decision.

Answer: Wanda is exhibiting risk-aversion. The risk model shows the trade-offs risk-averse individuals are willing to make between higher average salaries and greater variance in compensation. The more preferred job for a risk-averse individual is the job that offers the best package of both expected compensation and variance of compensation, not the position with the highest expected compensation.

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Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Decision Making under Uncertainty

10. You have \$64 to spend on fish (F) and chips (C). Suppose the price per unit of fish (P_f) is \$8 and the price of chips (P_c) is \$2. Your utility function for fish and chips is given as $\sqrt{FC}$
such that

$$MU_C = \frac{\sqrt{F}}{2\sqrt{C}}$$

and

$$MU_F = \frac{\sqrt{C}}{2\sqrt{F}}$$

are the marginal utilities of F and C. How many units of C and F should you buy to exhaust all income and to maximize utility?
Answer: First, in order to maximize utility, you have to be at equilibrium. This means that the following condition has to be satisfied: $\frac{MU_C}{P_C} = \frac{MU_F}{P_F}$.

It is better to write this as

$MU_C \,.\, P_F = MU_F \,.\, P_C$.

Now substitute the corresponding values in the above expression:

$$\frac{\sqrt{F}}{2\sqrt{C}} \,.\, \$\,8 = \frac{\sqrt{C}}{2\sqrt{F}} \,\$\,2$$

.

Canceling the 2s in the denominator and cross-multiplying, we get
C = 4 F.
Now, the second aspect of this is your income of \$64 that has to be spent on F and C. Therefore, the budget constraint should satisfy this condition:
64 = C P_c + F P_f or
64 = 2C + 8F, and now from the previous condition, we have
64 = (4F) 2 + 8F or
F = 4 units.
C = 16 units and total utility is

$\sqrt{FC} = \sqrt{4x16} = \sqrt{64} = 8$ utils.

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Difficulty: 03 Hard
Blooms: Apply
AACSB: Analytic
Topic: Appendix A: Consumer Choice

Multiple Choice Questions

11. Assume Barbara likes driving fast, but hates getting injured. If Congress passes a law for mandatory airbags, Barbara is likely to experience an increased number of accidents. Why?
A. The benefits of driving fast increase.
B. The expected cost of an accident at any given speed decreases.
C. Barbara will defy the law and not have airbags, since she thinks no one is going to enforce installing airbags in cars.
D. Barbara is confident that she can drive flawlessly since others will have airbags.

Answer: B
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

12. Marginal costs
A. are the incremental costs associated with making a decision.
B. are the expenditures already made that can't be recovered.
C. are not relevant when making an economic decision.
D. are costs that are usually classified under "miscellaneous."

Answer: A
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

13. If Larry starts a new pizza parlor and hires a manager for $30,000 per year, this implies that
A. pizza parlor managers are inexpensive to hire.
B. Larry values his labor at less than $30,000 per year.
C. Larry values his labor at more than $30,000 per year.
D. the price of pizza will increase if Larry works in the parlor himself.

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Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

14. Marginal analysis refers to the
A. relationship between the cause and effect of an economic event.
B. study of trade relations based on absolute cost differences.
C. comparison of benefits and costs of choosing a little more or a little less of a good.
D. calculation of opportunity costs of an economic activity.

Answer: C
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

15. Sunk costs refer to
A. costs that were incurred in the past and cannot be recovered and thus should not affect current decisions.
B. all the costs that a firm must incur in the process of production.
C. the costs that change proportionately with a change in the output.
D. the quantities of a good that are given up to obtain one unit of another good.

Answer: A
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Economic Behavior: An Overview

16. Robinson pays $100 for tickets to see his favorite sports team play. With 10 minutes left in the game, his team is losing heavily and has no chance of winning the game. Robinson chooses to stay until the end of the game because he wants to get the full value for his admission price. As an economist, you should advise Robinson to
A. stay until the end of the game as his intuition is correct.
B. stay until the end of the game as he might be heckled on the way out.
C. leave the game if his marginal benefit of leaving is greater than marginal cost, as the admission price is a sunk cost.
D. leave the game now as the line to exit the stadium is shorter now.

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Answer: C
Difficulty: 03 Hard
Blooms: Analyze
AACSB: Analytic
Topic: Economic Behavior: An Overview

17. Assume that the quantity of CDs is measured on the horizontal axis, while the quantity of movie tickets is measured on the vertical axis. If available income decreases, then
A. the horizontal intercept of the budget line decreases, while the vertical intercept remains unchanged.
B. the vertical intercept of the budget line decreases, while the horizontal intercept remains unchanged.
C. the budget line will shift inward.
D. the budget line will shift outward.

Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

18. Robert only consumes X and Y, and his indifference curves have the usual convex shape. Consider the consumption bundles (3, 9), (6, 6), and (9, 3) (*Hint*: The consumption bundles completely exhaust Robert's income). If Robert is indifferent between (3, 9) and (9, 3), then:
A. he prefers (3, 9) over (6, 6).
B. he prefers (9, 3) over (6, 6).
C. he prefers (6, 6) over both (3, 9) and (9, 3).
D. he prefers (6, 6) over (3, 9) but not over (9, 3).

Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

19. Assume that the quantity of X is measured on the horizontal axis, and the quantity of Y is measured on the vertical axis. Assume that the price of X is $3 and the price of Y is $6. If Amanda has $90 to spend on X and Y, then
A. she can buy, at most, 30 units of good X.
B. her budget line has a slope of –2.
C. her budget line has a slope of −3.
D. she can buy, at most, 15 units of good X.

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Answer: A
Difficulty: 03 Hard
Blooms: Apply
AACSB: Analytic
Topic: Graphical Tools

20. George likes skiing and needs one pair of bindings for each pair of skis he owns. George's indifference curves for skies and bindings
A. are approximately L-shaped.
B. are straight lines.
C. slope downward.
D. slope upward.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

21. Assume Joseph spends his entire income on X and Y, and his indifference curves have the usual convex shape. If Joseph maximizes his utility, then
A. he spends his entire available income.
B. there are other bundles that are preferred at the current price ratio.
C. the slope of his indifference curve is greater than the slope of his budget line.
D. the slope of his indifference curve is smaller than the slope of his budget line.

Answer: A
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Graphical Tools

22. A budget line
A. shows all the combinations of goods that yield the same utility.
B. shows all the combinations of goods that require the same total expenditure.
C. has a slope that depends on consumers' income.
D. usually slopes upward.

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Answer: B
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Graphical Tools

23. Assume that the quantity of apples is measured on the horizontal axis and the quantity of oranges is measured on the vertical axis. If the budget line rotates upward while keeping the same horizontal intercept, it implies that
A. the price of apples has decreased.
B. the price of oranges has decreased.
C. the available income has increased.
D. the price of oranges has increased.

Answer: B
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

24. Johnny consumes only bread and milk. Suppose the quantity of milk is measured along the horizontal axis. If the price of milk rises, his budget constraint will
A. shift outward.
B. shift inward.
C. rotate inward along the horizontal axis.
D. rotate inward along the vertical axis.

Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

25. Suppose a family's budget line is such that the horizontal axis shows the amount of food consumed, while the vertical axis measures the consumption of all other goods. Suppose this family receives food stamps. This will cause the budget line to
A. rotate leftward along the vertical axis.
B. pivot along the horizontal axis.
C. shift rightward along the horizontal axis.
D. shift leftward.

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Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Graphical Tools

26. Smith is given a voucher that can be spent only on textbooks. Smith has a budget constraint with textbooks measured along the horizontal axis and everything else on the vertical axis. Suppose everything else is comprised only of normal goods. Then
A. the voucher causes Smith to increase his spending on textbooks by more than the amount of the voucher.
B. Smith will most likely end up spending some more money on everything else after receiving the voucher.
C. Smith will not buy any textbooks because he can use the voucher for all other goods.
D. the voucher does not have any impact on Smith's consumption..

Answer: B
Difficulty: 03 Hard
Blooms: Analyze
AACSB: Reflective Thinking
Topic: Graphical Tools

27. Susan Chen is a stock analyst. She values two goods: money (income) and her integrity. Her bonus is based on the number of investments she recommends to the company. Generally speaking, the higher the bonus she receives,
A. the more she is willing to trade off her integrity for money.
B. the less she is willing to trade off her integrity for money.
C. the smaller is the shift in her budget line.
D. the more she is indifferent to changes in the level of bonus.

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Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Motivating Honesty at Merrill Lynch

28. If employees' activities follow the economists' view of behavior, managers will be most effective if they can
A. influence the costs and benefits of employee actions.
B. improve employee satisfaction with the job.
C. communicate goals and objectives effectively to their employees.
D. fire inefficient employees.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Managerial Implications

29. Which of the following is a primary role of a manager according to the good-citizen model?
A. to communicate the goals and objectives of the organization to employees
B. to discourage innovation at work
C. to allow the employees to work independently, without any help from the managers
D. to recognize and reward an employee who is honest, punctual, and obedient

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Alternative Models of Behavior

30. The _____ model suggests that that the productivity of employees in a firm will increase if the firm offers lifetime employment and a high salary.
A. only-money-matters
B. happy-is-productive
C. product-of-the-environment
D. good-citizen

Answer: B
Difficulty: 02 Medium
Blooms: Understand

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AACSB: Reflective Thinking Topic: Alternative Models of Behavior

31. Which of the following is a possible criticism of the happy-is-productive model?
A. The roles attributed to managers under this model represented a new brand of elitism.
B. The economic interests of employees were inappropriately emphasized under this model.
C. The model is based on the assumption that firms operate in a market where there is fierce competition among firms.
D. The model proves to be expensive for a firm to execute.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking Topic: Alternative Models of Behavior

32. Which of the following is a feature of a behavioral economic model?
A. It focuses on cognitive, emotional, and social factors that affect individual decisions.
B. It considers incentives an unimportant tool to study human behavior.
C. It suggests that individuals always behave rationally.
D. It is based on marginal analysis in decision making.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking Topic: Behavioral Economics

33. The _____ of an uncertain payoff is defined as the weighted average of all possible outcomes, where the probability of each outcome is used as the weights.
A. expected value
B. standard deviation
C. variance
D. skewness

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking Topic: Decision Making under Uncertainty

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34. ABC Corp. has a bonus plan in place for its CEO, linking her pay to annual earnings. ABC will pay her $180,000 if earnings are high, $90,000 if they are normal, and $0 if they are low. Each event is estimated to have equal probability. Assume the CEO is indifferent between this bonus plan and receiving $75,000 with certainty. Which of the following is true?
A. The CEO's expected bonus is $90,000.
B. The CEO is not willing to give up $15,000 in expected bonuses in order to avoid the risky scheme.
C. $85,000 is the CEO's certainty equivalent for the current bonus plan.
D. The CEO has no clue about risk management.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Decision Making under Uncertainty

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35. A risk-averse agent
A. only cares about expected payoff.
B. cares about expected payoff as well as the variability of a payoff.
C. only cares about the variability of a payoff.
D. does not care about expected payoff.

Answer: B
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Decision Making under Uncertainty

36. Assume that Janet is risk-averse. Which of the following bets is she more likely to accept, depending on the degree of risk aversion?
A. Win $40 one-fourth of the time, win $10 one-half of the time, and lose $40 one-fourth of the time
B. Win $40 one-fourth of the time, break even one-half of the time, and lose $40 one-fourth of the time
C. Win $20 one-fourth of the time, win $10 one-half of the time, and lose $20 one-fourth of the time
D. Win $20 one-fourth of the time, win $10 one-fourth of the time, and lose $20 one-fourth of the time

Answer: C
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Decision Making under Uncertainty

37. Assume MACROSOFT is planning to develop and sell a new word processor. It estimates that R&D expenses will amount to $300,000 for this new software, and it will have to invest an additional $150,000 to advertise and distribute the new product. If MACROSOFT's managers are risk-neutral, they will undertake this project if the expected revenues from the sales of the new software are
A. at least $150,000.
B. at least $100,000.
C. at least $300,000.
D. at least $450,000.

Answer: D
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Decision Making under Uncertainty

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38. Assume that the quantity of apples is measured on the horizontal axis and the quantity of oranges is measured on the vertical axis. If Andy likes both apples and oranges, then his Marginal Rate of Substitution along the indifference curve indicates
A. how many oranges he is willing to give up in order to obtain one more apple.
B. how many additional oranges he wants in order to give up two apples.
C. how many oranges he is willing to give up in order to get rid of one apple.
D. how many apples he is willing to give up in order to get rid of one orange.

Answer: A
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

39. The substitution effect
A. reduces the quantity demanded of a good when its price increases.
B. is equal to the income effect for a normal good.
C. is always greater than the income effect.
D. is always smaller than the income effect.

Answer: A
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

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40. The demand for normal goods follows the law of demand because of
A. the substitution effect only.
B. the income effect only.
C. risk-aversion by consumers.
D. both the substitution and income effects.

Answer: D
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

41. The absolute value of the marginal rate of substitution is a measure of
A. the slope of a budget constraint.
B. the slope of an indifference curve.
C. the relative price of two goods.
D. income effect of a price change.

Answer: B
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

42. Marginal utility is the
A. total happiness obtained from a consumption bundle.
B. additional utility obtained by a fall in the price of a good.
C. additional utility obtained by consuming one additional unit of a good.
D. total amount spent to purchase one additional unit of a good.

Answer: C
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

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43. You purchase both potatoes and gasoline regularly. Your income increases and you purchase more gasoline and less potatoes. This implies that
A. gasoline has a negative substitution effect.
B. potatoes are normal goods.
C. gasoline is an inferior good.
D. gasoline is a normal good.

Answer: D
Difficulty: 02 Medium
Blooms: Understand
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

44. Suppose canned soup is an inferior good. This means that
A. when income rises, more cans of soup will be bought.
B. when income rises, fewer cans of soup will be bought.
C. when income falls, fewer cans of soup will be bought.
D. you will never consume canned soup because of its low quality.

Answer: B
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

45. The income effect means that when the price of a good rises
A. the buying power of your income falls.
B. consumers have an incentive to consume less of the good with a relatively higher price and more of the good with a relatively lower price.
C. your preferences also change.
D. you buy more normal goods and fewer inferior goods.

Answer: A
Difficulty: 01 Easy
Blooms: Remember
AACSB: Reflective Thinking
Topic: Appendix A: Consumer Choice

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46. O'Roberts receives a cash prize of $3,000 and is trying to decide how much money to invest at an interest rate of 5 percent and how much to spend now. Consider his intertemporal budget constraint where future interest income is measured on the vertical axis. If the interest rate were 7 percent instead, his budget constraint would
A. rotate inward along the vertical axis.
B. rotate inward along the horizontal axis.
C. rotate outward along the vertical axis.
D. rotate outward along the horizontal axis.

Answer: C
Difficulty: 03 Apply
Blooms: Analyze
AACSB: Reflective Thinking
Topic: Appendix B: Intertemporal Decisions and the Fisher Separation Theorem

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