# Lesson 2-1

# 2-1 Study Guide and Intervention

# Inductive Reasoning and Conjecture

Making Conjectures Inductive reasoning is reasoning that uses information from different examples to form a conclusion or statement called a conjecture.

Example 1 Write a conjecture about the next number in the sequence 1, 3, 9, 27, 81.

Look for a pattern:

Each number is a power of 3.

1 3 9 27 81 3° 3° 3° 3° 3°

Conjecture: The next number will be 35 or 243.

a conjecture about the number of small squares in the next figure.

Look for a pattern: The sides of the squares have measures 1, 2, and 3 units. Conjecture: For the next figure, the side of the square will be 4 units, so the figure will have 16 small squares.

# **Exercises**

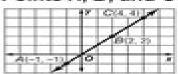
Write a conjecture that describes the pattern in each sequence. Then use your conjecture to find the next item in the sequence.

- 1. -5, 10, -20, 40 Pattern: Each number is -2 times the previous number. Conjecture: The next number is -80.
- 2. 1, 10, 100, 1000 Pattern: Each number is 10 times the previous number. Conjecture: The next number is 10,000.
- 3. 1,  $\frac{6}{5}$ ,  $\frac{7}{5}$ ,  $\frac{8}{5}$  Pattern: Each number is  $\frac{1}{5}$  more than the previous number. Conjecture: The next number is  $\frac{9}{5}$ .

Write a conjecture about each value or geometric relationship. 4—7. Sample answers are given.

 $\mathbf{4.}\ A(-1,\,-1),\, B(2,\,2),\, C(4,\,4)$ 

Points A, B, and C are collinear.



∠ABC and ∠DBE are vertical angles.

∠ABC and ∠DBE are congruent.



5.  $\angle 1$  and  $\angle 2$  form a right angle.

∠1 and ∠2 are complementary.



7.  $\angle E$  and  $\angle F$  are right angles.

∠E and ∠F are congruent.



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- 1. Understanding the eBook Algebra 2 Explorations And Applications Study Guide Answer Key
  - The Rise of Digital Reading Algebra 2 Explorations And Applications Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebra 2 Explorations And Applications Study Guide Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebra 2 Explorations And Applications Study Guide Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebra 2 Explorations And Applications Study Guide Answer Key

- Personalized Recommendations
- Algebra 2 Explorations And Applications Study Guide Answer Key User Reviews and Ratings
- Algebra 2 Explorations And Applications Study Guide Answer Key and Bestseller Lists
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- 7. Enhancing Your Reading Experience
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  - Highlighting and Note-Taking Algebra 2 Explorations And Applications Study Guide Answer Key
  - Interactive Elements Algebra 2 Explorations And Applications Study Guide Answer Key
- 8. Staying Engaged with Algebra 2 Explorations And Applications Study Guide Answer Key
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 2 Explorations And Applications Study Guide Answer Key
- 9. Balancing eBooks and Physical Books Algebra 2 Explorations And Applications Study Guide Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 2 Explorations And Applications Study Guide Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 2 Explorations And Applications Study Guide Answer Key
  - Setting Reading Goals Algebra 2 Explorations And Applications Study Guide Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 2 Explorations And Applications Study Guide Answer Key

- Fact-Checking eBook Content of Algebra 2 Explorations And Applications Study Guide Answer Key
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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