Exponents and Polynomials

ARE YOU READY? PAGE 443

17.
$$(-1)^6$$

= $(-1)(-1)(-1)(-1)(-1)(-1)(-1)$
= 1

22.
$$8y - 4x + 2y + 7x - x$$

= $8y + 2y - 4x + 7x - x$
= $10y + 2x$

26. yes;
$$\sqrt{81} = \sqrt{9^2} = 9$$
 27. yes; $\sqrt{36} = \sqrt{6^2} = 6$

29. ves:
$$\sqrt{100} = \sqrt{10^2} = 10$$

30. yes:
$$\sqrt{4} = \sqrt{2^2} = 2$$

30. yes;
$$\sqrt{4} = \sqrt{2^2} = 2$$
 31. yes; $\sqrt{1} = \sqrt{1^2} = 1$

7-1 INTEGER EXPONENTS. PAGES 446-451

CHECK IT OUT! PAGES 447-448

1.
$$5^{-5} = \frac{1}{5^{5}} = \frac{1}{5 \cdot 5 \cdot 5} = \frac{1}{125}$$

 5^{-5} m is equal to $\frac{1}{125}$ m.

2a.
$$10^{-4} = \frac{1}{10^4} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10} = \frac{1}{10,000}$$

b.
$$(-2)^{-4} = \frac{1}{(-2)^4} = \frac{1}{(-2)(-2)(-2)(-2)} = \frac{1}{16}$$

c.
$$(-2)^{-5} = \frac{1}{(-2)^5} = \frac{1}{(-2)(-2)(-2)(-2)(-2)} = -\frac{1}{32}$$

d.
$$-2^{-5} = -\frac{1}{9^5} = -\frac{1}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = -\frac{1}{32}$$

3a.
$$p^{-3}$$
= 4^{-3}
= $\frac{1}{4^{3}}$
= $\frac{1}{4 \cdot 4 \cdot 4}$
= $\frac{1}{64}$

b.
$$8a^{-2}b^0$$

 $= 8(-2)^{-2}(6)^0$
 $= 8 \cdot \frac{1}{(-2)^2} \cdot 1$
 $= 8 \cdot \frac{1}{(-2)(-2)}$
 $= 8 \cdot \frac{1}{4}$
 $= 2$

4a.
$$2r^{0}m^{-3} = 2 \cdot r^{0} \cdot m^{-3}$$
 b. $\frac{r^{-3}}{7} = r^{-3} \cdot \frac{1}{7}$
 $= 2 \cdot 1 \cdot \frac{1}{m^{3}}$ $-\frac{1}{r^{2}} \cdot \frac{1}{7}$
 $= \frac{2}{m^{3}}$ $-\frac{1}{7} \cdot \frac{1}{7}$

b.
$$\frac{r^{-3}}{7} = r^{-3} \cdot \frac{1}{7}$$

= $\frac{1}{r^2} \cdot \frac{1}{7}$
= $\frac{1}{7}r^3$

c.
$$\frac{g^4}{h^{-6}} = g^4 \cdot \frac{1}{h^{-6}}$$

$$= g^4 \cdot h^6$$

$$= g^4 h^6$$

THINK AND DISCUSS, PAGE 448



For a respective executive at the physics rather, whose lifes premier to little demonstrator and change the impoles. exponent to a positive expenses. provided province 2nd as it.

description of the polymer had the numerotics and Change the negative properties to a people or argument which will properly the wild con-

EXERCISES, PAGES 449-451

GUIDED PRACTICE, PAGE 449.

1.
$$10^{-7} = \frac{1}{10^7} = \frac{1}{10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10} = \frac{1}{10.000,000} m$$

 $= \frac{1}{10.000,000} m$

2.
$$6^{-2} = \frac{1}{6^2} = \frac{1}{6 \cdot 6} = \frac{1}{36}$$
 3. $3^0 = 1$
4. $-5^{-2} = -\frac{1}{6^2} = -\frac{1}{5 \cdot 6} = -\frac{1}{26}$

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- 1. Understanding the eBook Holt Algebra Lesson 1answer Key
 - The Rise of Digital Reading Holt Algebra Lesson 1answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Holt Algebra Lesson 1answer 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 Holt Algebra Lesson 1answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Holt Algebra Lesson 1answer Key
 - Personalized Recommendations
 - Holt Algebra Lesson 1answer Key User Reviews and Ratings
 - Holt Algebra Lesson 1answer Key and Bestseller Lists

- 5. Accessing Holt Algebra Lesson 1answer Key Free and Paid eBooks
 - Holt Algebra Lesson 1answer Key Public Domain eBooks
 - Holt Algebra Lesson 1answer Key eBook Subscription Services
 - Holt Algebra Lesson 1answer Key Budget-Friendly Options
- 6. Navigating Holt Algebra Lesson 1answer Key eBook Formats
 - o ePub, PDF, MOBI, and More
 - Holt Algebra Lesson 1answer Key Compatibility with Devices
 - Holt Algebra Lesson 1answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Algebra Lesson 1answer Key
 - Highlighting and Note-Taking Holt Algebra Lesson 1answer Key
 - Interactive Elements Holt Algebra Lesson 1answer Key
- 8. Staying Engaged with Holt Algebra Lesson 1answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Algebra Lesson 1answer Key
- 9. Balancing eBooks and Physical Books Holt Algebra Lesson 1answer Key
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Holt Algebra Lesson 1answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Algebra Lesson 1answer Key
 - Setting Reading Goals Holt Algebra Lesson 1answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Algebra Lesson 1 answer Key
 - Fact-Checking eBook Content of Holt Algebra Lesson 1answer Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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