

1. Simplify. Omit restrictions.

a. $\frac{(-xy)^7}{xy^7}$

$\frac{-x^7y^7}{xy^7} = -x^6$

b. $\frac{8a^2b - 12ab^2 + 4ab}{4ab}$

$2a - 3b + 1$

c. $\frac{(ab-2c)(ab+2c)}{(ab)^2 - (2c)^2}$ DOTS
 $\frac{a^2b^2 - 4c^2}{a^2b^2 - 4c^2}$

d. $(5p^3 - 6)^2$ PST

$(5p^3)^2 - 2(5p^3)(6) + (6)^2$
 $25p^6 - 60p^3 + 36$

e. $(2x-y)(x^2 - 4xy + 3y^2)$

$2x^3 - 8x^2y + 6xy^2 - x^2y + 4xy^2 - 3y^3$
 $2x^3 - 9x^2y + 10xy^2 - 3y^3$

f. $\frac{8x-20y}{4} - \frac{18x+45y}{9}$

$(2x-5y) - (2x+5y)$
 $2x-5y-2x-5y$
 $-10y$

2. Factor completely. Show steps.

a. $a^3x - 9ax^3$

$ax(a^2 - 9x^2)$
 $ax(a+3x)(a-3x)$

b. $5c^2 - 40c - 100$

$5(c^2 - 8c - 20)$
 $5(c-10)(c+2)$

c. $a^3 + a^2 - a - 1$

$(a^3 + a^2) + (-a - 1)$
 $a^2(a+1) - (a+1)$
 $(a+1)(a^2 - 1)$
 $(a+1)(a-1)(a+1)$
 $(a+1)^2(a-1)$

d. $n^2(n^2 - 9) + 4(9 - n^2)$

$n^2(n^2 - 9) - 4(n^2 - 9)$
 $(n^2 - 9)(n^2 - 4)$
 $(n+3)(n-3)(n+2)(n-2)$

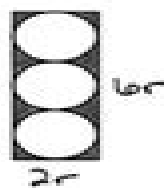
e. $36x^2 - 84xy + 49y^2$

$(6x-7y)^2$

f. $10t^2 - 15t - 25$
 $5(2t^2 - 3t - 5)$
 $5(2t-5)(t+1)$

3. If r is the radius of each circle in the diagram at the right, express the area of the shaded region in factored form. Show work.

Rectangle - 3 Circles
 $(2r)(6r) - 3\pi r^2$
 $12r^2 - 3\pi r^2$
 $3r^2(4 - \pi)$



4. Solve and write the solution set. Omit checks.

a. $(n+3)(2n+3) = (n+2)^2 + (n-2)^2$

$2n^2 + 9n + 9 = (n^2 + 4n + 4) + (n^2 - 4n + 4)$
 $2n^2 + 9n + 9 = 2n^2 + 8$
 $9n + 9 = 8$
 $9n = -1$
 $n = -\frac{1}{9}$
 $\therefore \{-\frac{1}{9}\}$

b. $(x+2)(x-3) = 24$

$x^2 - x - 6 = 24$
 $x^2 - x - 30 = 0$
 $(x-6)(x+5) = 0$
 $x = 6$ or $x = -5$
 $\therefore \{-5, 6\}$

Algebra Lesson 9 4 Practice

J Elliott

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue horizontal bar.

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Table of Contents Algebra Lesson 9 4 Practice

1. Understanding the eBook Algebra Lesson 9 4 Practice
 - The Rise of Digital Reading Algebra Lesson 9 4 Practice
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Lesson 9 4 Practice
 - 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 Lesson 9 4 Practice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Lesson 9 4 Practice
 - Personalized Recommendations
 - Algebra Lesson 9 4 Practice User Reviews and Ratings
 - Algebra Lesson 9 4 Practice and Bestseller Lists

5. Accessing Algebra Lesson 9 4 Practice Free and Paid eBooks
 - Algebra Lesson 9 4 Practice Public Domain eBooks
 - Algebra Lesson 9 4 Practice eBook Subscription Services
 - Algebra Lesson 9 4 Practice Budget-Friendly Options
6. Navigating Algebra Lesson 9 4 Practice eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Lesson 9 4 Practice Compatibility with Devices
 - Algebra Lesson 9 4 Practice Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Lesson 9 4 Practice
 - Highlighting and Note-Taking Algebra Lesson 9 4 Practice
 - Interactive Elements Algebra Lesson 9 4 Practice
8. Staying Engaged with Algebra Lesson 9 4 Practice
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Lesson 9 4 Practice
9. Balancing eBooks and Physical Books Algebra Lesson 9 4 Practice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Lesson 9 4 Practice
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra Lesson 9 4 Practice
 - Setting Reading Goals Algebra Lesson 9 4 Practice
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra Lesson 9 4 Practice
 - Fact-Checking eBook Content of Algebra Lesson 9 4 Practice
 - 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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