Algebra 2: Chapter 9 Review

1. Simplify leaving answer in standard form.

$$\frac{x^2 - y^2}{y^2 - x^2} = \frac{(x-y)(x+y)}{(y-x)(y+x)} = \frac{(x-y)}{(y-x)} = \frac{1(x-y)}{(-1)(x-y)} = -\frac{1}{1} = \boxed{-1}$$

2. Simplify and state the excluded values.

$$\frac{10x^2}{2x^2 - 6x} = \frac{(2x)(5x)}{2x(x-3)} = \boxed{\frac{5x}{x-3} \quad \begin{array}{l} x \neq 0 \\ x \neq 3 \end{array}}$$

3. Simplify, leaving answer in the factored form.

$$\frac{2x^2 + 5xz - 3z^2}{x^2 + 2xz - 3z^2} = \frac{(2x - z)(x + 3z)}{(x - z)(x + 3z)} = \boxed{\frac{2x - z}{x - z}}$$

4. Simplify stating excluded terms.

$$\frac{12x^3 - 8x^2}{4x^4 - 4x^2} = \frac{4x^2(3x - 2)}{4x^2(x^2 - 1)} = \boxed{\frac{3x - 2}{x^2 - 1} \quad x \neq 0, -1}$$

excluded values

5. Multiply.

$$\frac{a^2 + 2a - 15}{a^2 - 6a + 9} \cdot \frac{a^2 + 3a - 18}{a^2 + 11a + 30} = \frac{(a+5)(a-3)}{(a-3)(a-3)} \cdot \frac{(a-3)(a+6)}{(a+5)(a+6)} = \frac{1}{1} \cdot \frac{1}{1} = \boxed{1}$$

6. Divide.

$$\frac{a^2 - 4}{a^2 - 5a + 6} \div \frac{a^2 + 4a + 4}{a^2 + 9a + 14} = \frac{(a+2)(a-2)}{(a-3)(a-2)} \cdot \frac{(a+7)(a+2)}{(a+2)(a+2)} = \boxed{\frac{a+7}{a-3}}$$

7. Simplify, stating any excluded values.

$$\frac{x^2 - 5x - 6}{x^2 - 10x + 16} \div \frac{x^2 - 3x - 18}{x - 2} = \frac{(x-6)(x+1)}{(x-8)(x-2)} \cdot \frac{x-2}{(x-6)(x+3)} = \boxed{\frac{(x+1)}{(x-8)(x+3)} \quad x \neq 6, -3, 8, 2}$$

excluded values

8. Simplify.

$$\frac{\frac{x^2 - 1}{5x}}{\frac{x+1}{10x}} = \frac{x^2 - 1}{5x} \div \frac{x+1}{10x} = \frac{(x+1)(x-1)}{5x} \cdot \frac{\overset{2}{\cancel{10x}}}{x+1} = \boxed{(x-1)2}$$

Algebra 2 Chapter 8 4

Ryan Lloyd

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  Algebra 2 Chapter 1 Resource Masters McGraw-Hill Staff,2002-05   **Mechanics of Solids** Dr. H. J. Shah,
  Answers to Exercises in Higher Algebra George Egbert Fisher,1902   Prentice Hall Algebra 2 Prentice-Hall Staff,2004-10-15 Prentice Hall Mathematics offers comprehensive math content coverage introduces basic mathematics concepts and skills and provides numerous opportunities to access basic skills along with abundant remediation and intervention activities   Answers to Exercises in Secondary Algebra George Egbert Fisher,Isaac Joachim Schwatt,1900
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  Algebra Review Exercises ,1930   *Elementary algebra, to quadratics, by C.H. French and G. Osborn* Charles Henry French,1899   **Examples in algebra, by W.F. McMichael and R. Prowde-Smith. [With] Answers** William Fisher McMichael,1879   **An Algebra for Secondary Schools** Earle Raymond Hedrick,1908   **Homework Helpers: Pre-Calculus** Denise Szecsei,2007-04-25 This title in the Homework Helpers series will reinforce mathematical foundations and bolster students confidence in pre calculus The concepts are explained in everyday language before the examples are worked Good habits such as checking your answers after every problem are reinforced There are practice problems throughout the book and the answers to all of the practice problems are included The problems are solved clearly and systematically with step by step instructions provided Particular attention is placed on topics that students traditionally struggle with the most While this book could be used to supplement a standard pre calculus textbook it could also be used by college students or adult learners to refresh long forgotten concepts and skills Homework Helpers Pre Calculus is a

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