

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.

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

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.

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

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.

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

Algebra 2 Chapter 8 4

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Clothesline Math: The Master Number Sense Maker Chris Shore, 2019-12-10 This must-have resource provides the theoretical groundwork for teaching number sense. Authored by Chris Shore, this e-book empowers teachers with the pedagogy, lessons, and detailed instructions to help them implement *Clothesline Math* in K–12 classrooms. Detailed useful tips for facilitating the ensuing mathematical discourse are also included. At the elementary level, the hands-on lessons cover important math topics, including whole numbers, place value, fractions, order of operations, algebraic reasoning, variables, and more. Implement *Clothesline Math* at the secondary level and provide students with hands-on learning and activities that teach advanced math topics, including geometry, algebra, statistics, trigonometry, and pre-calculus. Aligned to state and national standards, this helpful resource will get students excited about learning math as they engage in meaningful discourse.

Scheduling Strategies for Middle Schools Michael D. Rettig, Robert Lynn Canady, 2013-10-30 With over 150 sample schedules, this book shows how scheduling strategies can enhance your school's capacity to offer exploratory courses, interdisciplinary teaching teams, teacher-based guidance programs, and other programs and practices which are responsive to the needs of early adolescents. SAT Math

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