

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.

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

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.

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

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