

Lesson 4: Simplifying Rational Expressions

To simplify rational expressions:

- Factor the numerator and the denominator
- Cancel out common factors

To state **restrictions** on the variable in a rational expression, determine and exclude the value(s) of the variable that make the denominator equal to 0 **before** any cancellations occur.

Example 1: Simplify and state the restrictions on the variables for each of the following.

$$\text{a) } \frac{3t^2 + 6t^2 - 15t}{3t} = \frac{3t(t^2 + 2t - 5)}{3t}$$

$$= t^2 + 2t - 5$$

Restrictions: $t \neq 0$

Therefore, $t \neq 0$

$$\text{c) } \frac{m - 2}{m^2 - 5m + 6}$$

$$\text{b) } \frac{5x}{5(x + 4)} = \frac{x}{x + 4}$$

$$\text{Restrictions: } \begin{aligned} x + 4 &= 0 \\ x &= -4 \end{aligned}$$

Therefore, $x \neq -4$

$$\text{d) } \frac{y^2 + 10y + 25}{y + 5}$$

$$\text{e) } \frac{x^2 + 4x + 4}{x^2 + 5x + 6}$$

$$\text{f) } \frac{3 - x}{x - 3}$$

Example 2: The ratio $\frac{\text{volume of rectangular solid}}{\text{area of rectangular base}}$ represents the height of a rectangular solid. What is the height when the volume is $4x^3 + 4x^2$ and the area is $4x^2$? Explain how you found your answer.

Simplifying Rational Expressions Unit Lesson 01

Mike Csencsits



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