Lesson 4-3: Multiplying and Dividing Rational Expressions

|  |  |
| --- | --- |
| **Math Objectives** | 1. Use the structure of rational expressions to rewrite simple rational expressions in different forms 2. Understand that rational expressions form a system analogous to the system of rational numbers and use that understanding to multiply and divide rational expressions |
| **Language objective** | Verbally explain the role factoring quadratic expressions has in simplifying simple rational expressions using a graphic organizer. |
| **Essential Understanding** | * Rational expressions form a similar system to the system of rational numbers and can be multiplied and divided by applying the properties of operations as they apply to rational expressions |

**EXPLORE & REASON**

*A graph of a function with a red line

AI-generated content may be incorrect.*

A close up of black text

AI-generated content may be incorrect.

A paper with a number and equations

AI-generated content may be incorrect.

A math problem with black text

AI-generated content may be incorrect.

**TRY IT! 1.** Write and expression equivalent to. Remember to give the domain for your expression

**A math problem with numbers and equations

AI-generated content may be incorrect.**

**A white background with black text

AI-generated content may be incorrect.**

A screenshot of a math test

AI-generated content may be incorrect.

A black text on a white background

AI-generated content may be incorrect.

A math problem with multiplying equations

AI-generated content may be incorrect.

A black text on a white background

AI-generated content may be incorrect.

A math problem with multiplying and dividing expressions

AI-generated content may be incorrect.

A black text on a white background

AI-generated content may be incorrect.

A diagram of a cylinder and a cylinder with equations

AI-generated content may be incorrect.

A close up of a text

AI-generated content may be incorrect.

|  |  |
| --- | --- |
| A screenshot of a math test  AI-generated content may be incorrect. |  |

|  |  |
| --- | --- |
| A white rectangular object with red text  AI-generated content may be incorrect. |  |

|  |  |
| --- | --- |
| A white paper with black text and red x  AI-generated content may be incorrect. |  |

|  |  |
| --- | --- |
| A screenshot of a book  AI-generated content may be incorrect. |  |

|  |  |
| --- | --- |
| A math problem with a triangle  AI-generated content may be incorrect. |  |