

Rational Algebraic Expressions

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What are Rational Algebraic Expressions?

A rational algebraic expression is a quotient of two polynomials, where the denominator is not equal to zero. In symbols,

$$\frac{P}{Q}$$

where P and Q are polynomials and $Q \neq 0$.

What is a Polynomial?

A polynomial is a special kind of algebraic expression where each term is a constant, a variable, or a product of constants and variables raised to whole number exponents.

What is a Domain?

The domain is the set of real numbers which can be used as replacements for the variable in a rational expression.

How to Get the Domain of a Rational Algebraic Expression?

1. If the denominator has variables, set it to zero.

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2. Find the solution set of the resulting equation.

Thank you for watching.