

Rational Expressions & Equations

A **rational expression** is an expression of a ratio of two polynomials. A **rational equation** is an equation containing rational expressions.

Adding & Subtracting Rational Expressions

To add or subtract rational expressions, first find a common denominator.

EX: Simplify $\frac{1}{x} + \frac{x+2}{x^2} = \frac{-5}{2x}$

- $\frac{1}{x} + \frac{x+2}{x^2} = \frac{-5}{2x}$
- The common denominator is $2x^2$.
- Multiply.
- Simplify.
- Add and subtract the numerators.

Multiplying & Dividing Rational Expressions

To multiply rational expressions, divide out common factors first, then multiply.

EX: Simplify $\frac{4x}{8x^2} \left(\frac{-3x^2}{9x} \right)$

- $\frac{4x}{8x^2} \left(\frac{-3x^2}{9x} \right)$
- Divide out common factors.
- Simplify.
- Multiply.

To divide rational expressions, multiply by the reciprocal of the second expression.

Solving Rational Equations

To solve a rational equation, determine the values that make the denominator zero. These values are the restriction of the domain. Then find a common denominator and write an equation using the numerators.

EX: Solve $\frac{6}{x+3} - \frac{1}{x} = \frac{x+1}{2x}$

- $\frac{6}{x+3} - \frac{1}{x} = \frac{x+1}{2x}$
- $\frac{6}{x+3} - \frac{1}{x} = \frac{x+1}{2x}$
- $\frac{12x}{2x(x+3)} - \frac{2x+6}{2x(x+3)} = \frac{x^2+4x+3}{2x(x+3)}$
- $12x - (2x+6) = x^2+4x+3$
- $0 = x^2 - 6x + 9$
- $0 = (x-3)(x-3)$
- $x = 3$

- Original equation
- The common denominator is $2x(x+3)$.
- Multiply.
- Set the numerators equal to each other.
- Set the equation equal to 0.
- Factor.
- Solve for x .

$x = 3$ is not a restriction of the original denominator, so $x = 3$ is the solution.

Exponents & Logarithms

Using Rules of Exponents

For the following rules, a and b are real numbers and m and n are integers.

Product of Powers

RULE: $a^m \cdot a^n = a^{m+n}$ EX: $3^2 \cdot 3^3 = 3^{2+3} = 3^5$

Power of a Power

RULE: $(a^m)^n = a^{mn}$ EX: $(3^2)^3 = 3^{2 \cdot 3} = 3^6$

Power of a Product

RULE: $(ab)^n = a^n b^n$ EX: $(2 \cdot 6)^2 = 2^2 \cdot 6^2$

Quotient of Powers

RULE: $\frac{a^m}{a^n} = a^{m-n}, a \neq 0$ EX: $\frac{2^5}{2^3} = 2^{5-3} = 2^2 = 4$

Power of a Quotient

RULE: $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, b \neq 0$ EX: $\left(\frac{6}{2}\right)^2 = \frac{6^2}{2^2}$

Property of Negative Exponents

RULE: $a^{-n} = \frac{1}{a^n}, a \neq 0$ EX: $4^{-3} = \frac{1}{4^3}$

Zero Property of Exponents

RULE: $a^0 = 1, a \neq 0$ EX: $8^0 = 1$

Using Properties of Logarithms

A **logarithm** is defined as $y = \log_a x$ if $x = a^y$, where $a > 0$. In other words, logarithms are exponents. If the base of a log is not noted, assume the base is 10, that is, log refers to log base 10, or $\log_{10} x$. For the following properties, a , x , and y are positive integers.

Product Property

RULE: $\log_a xy = \log_a x + \log_a y$
EX: $\log_2(8 \cdot 6) = \log_2 8 + \log_2 6$

Quotient Property

RULE: $\log_a \frac{x}{y} = \log_a x - \log_a y$

EX: $\log_2 \frac{8}{6} = \log_2 8 - \log_2 6$

Power Property

RULE: $\log_a x^y = y \log_a x$ EX: $\log_2 8^3 = 3 \log_2 8$

Natural Logarithms

A **natural logarithm**, $\ln$, is used to represent $\log_e x$, where $e = 2.718$. For the following properties, x and y are positive integers.

Product Property

RULE: $\ln xy = \ln x + \ln y$ EX: $\ln(4 \cdot 3) = \ln 4 + \ln 3$

Quotient Property

RULE: $\ln \frac{x}{y} = \ln x - \ln y$ EX: $\ln \frac{1}{2} = \ln 1 - \ln 2$

Power Property

RULE: $\ln x^y = y \ln x$ EX: $\ln 3^2 = 2 \ln 3$

Solving Exponential Equations

Use logarithms or natural logarithms to solve exponential equations.

EX: Solve $8^x = 24$

- Original equation
- Take the log of each side.
- Use the Power Property.
- Divide each side by log.
- Divide each side by 5.
- Solve for x .

Conic Sections

Circle

A **circle** is the locus of points equidistant from a fixed point, the center.

- Standard form: $(x-h)^2 + (y-k)^2 = r^2$, where r = radius and (h, k) is the center of the circle.

Ellipse

An **ellipse** is the locus of points such that the sum of the distances from any point on the ellipse to the foci is constant.

When the ellipse is longer horizontally than vertically, $a > b$.

Standard form: $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$

- Center: (h, k)
- Foci: $(h-c, k)$ and $(h+c, k)$, where $c^2 = a^2 - b^2$
- Major axis: $y = k$
- Minor axis: $x = h$

When the ellipse is longer vertically than horizontally, $b > a$:

Standard form: $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$

- Center: (h, k)
- Foci: $(h, k-c)$ and $(h, k+c)$, where $c^2 = b^2 - a^2$
- Major axis: $y = k$
- Minor axis: $x = h$

Parabola

A **parabola** is the locus of points that is equidistant from the focus and the directrix. When the parabola opens up or down:

- Standard form: $(x-h)^2 = 4p(y-k)$, where $p \neq 0$
- Vertex: (h, k)
- Foci: $(h, k+p)$
- Directrix: $y = k-p$

When the parabola opens right or left:

- Standard form: $(y-k)^2 = 4p(x-h)$, where $p \neq 0$
- Vertex: (h, k)
- Foci: $(h+p, k)$
- Directrix: $x = h-p$

Hyperbola

A **hyperbola** is the locus of points such that the difference of the distances between any point on the hyperbola and the two foci is constant. When the hyperbola opens right or left, $a > b$:

Standard form: $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$

- Center: (h, k)
- Vertices: $(h-a, k)$ and $(h+a, k)$
- Foci: $(h-c, k)$ and $(h+c, k)$, where $c^2 = a^2 + b^2$

- Asymptotes: $y = k + \frac{b}{a}(x-h)$ and $y = k - \frac{b}{a}(x-h)$

When the hyperbola opens up or down, $b > a$:

Standard form: $\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$

- Center: (h, k)
- Vertices: $(h, k-a)$ and $(h, k+a)$
- Foci: $(h, k-c)$ and $(h, k+c)$, where $c^2 = a^2 + b^2$

- Asymptotes:

$y = k + \frac{b}{a}(x-h)$

and $y = k - \frac{b}{a}(x-h)$

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Michael Hoelscher



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