

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 $\frac{1}{x} + \frac{x+2}{x^2} - \frac{-5}{2x}$

- $\frac{1}{x} + \frac{x+2}{x^2} - \frac{-5}{2x}$
 - $= \frac{1}{x} \left(\frac{2x}{2x} \right) + \frac{x+2}{x^2} \left(\frac{2}{2} \right) - \frac{-5}{2x} \left(\frac{x}{x} \right)$
 - $= \frac{2x}{2x^2} + \frac{2x+4}{2x^2} - \frac{-5x}{2x^2}$
 - $= \frac{9x+4}{2x^2}$
- 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 $\frac{4x}{8x^2} \left(\frac{-3x^2}{9x} \right)$

- $\frac{4x}{8x^2} \left(\frac{-3x^2}{9x} \right)$
 - $= \frac{4}{8} \cdot \frac{x}{x^2} \left(\frac{-3}{9} \cdot \frac{x^2}{x} \right)$
 - $= \frac{1}{2} \left(\frac{-x}{3} \right)$
 - $= \frac{-x}{6}$
- Original expression
 - 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 $\frac{6}{x+3} - \frac{1}{x} = \frac{x+1}{2x}$

- $\frac{6}{x+3} - \frac{1}{x} = \frac{x+1}{2x}$
 - $\frac{6}{x+3} - \frac{2x}{2x} - \frac{1}{x} \cdot \frac{2(x+3)}{2(x+3)} = \frac{x+1}{2x} \cdot \frac{(x+3)}{(x+3)}$
 - $\frac{12x}{2x(x+3)} - \frac{2x+6}{2x(x+3)} = \frac{x^2+4x+3}{2x(x+3)}$
 - $12x - (2x+6) = x^2+4x+3$
 - $0 = x^2 - 6x + 9$
 - $0 = (x-3)(x-3)$
 - $x = 3$
- 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: $\frac{2^5}{2^2} = 2^{5-2} = 24 \div 16$

Power of a Quotient
 RULE: $\left(\frac{a}{b} \right)^n = \frac{a^n}{b^n}, b \neq 0$ EX: $\left(\frac{6}{3} \right)^2 = \frac{6^2}{3^2}$

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, logs 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: $\log_5 \frac{5}{6} = \log_5 5 - \log_5 6$

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**, $\ln x$, is used to represent $\log_e x$, where $e = 2.71$. 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 $8^x = 24$

- $8^x = 24$
 - $\log 8^x = \log 24$
 - $x \log 8 = \log 24$
 - $x = \frac{\log 24}{\log 8}$
 - $x \approx \frac{\log 24}{\log 8}$
 - $x \approx 0.51$
- Original equation
 - Take the log of each side.
 - Use the Power Property.
 - Divide each side by log 8.
 - 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: $x = h$
- Minor axis: $y = k$



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 $p \neq 0$

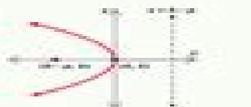
- Vertex: (h, k)
- Foci: $(h, k+p)$
- Directrix: $y = k - p$



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: $x = h - p$

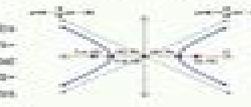


Hyperbola

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 $c^2 = a^2 + b^2$

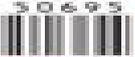


• **Asymptotes:** $y = k + \frac{b}{a}(x-h)$ and $y = k - \frac{b}{a}(x-h)$

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

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web diagram indicating kinetochore microtubules bound to kinetochores and the aster the aster is an array of microtubules that radiates out from the centrosome towards the cell edge diagram also indicates the centromere region of a chromosome the narrow waist where the two sister chromatids are most tightly connected and the kinetochore a

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web mitosis is the process of nuclear division at the end of mitosis a cell contains two identical nuclei mitosis is divided into four stages pmat listed below prophase metaphase anaphase telophase cytokinesis the process of cell division occurs during the last stage of mitosis telophase some cells do not go through mitosis

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web during mitosis two identical copies of the genome are packaged into chromosomes that are distributed equally between two daughter nuclei by a highly dynamic spindle structure

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web the mitotic phase also known as m phase is a multistep process during which the duplicated chromosomes are aligned separated and move into two new identical daughter cells the first portion of the mitotic phase is called karyokinesis or nuclear division

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web specifically compare the chromosomes in cells at the end of mitosis vs the end of meiosis i recognizing that the diagram of mitosis tracks just a single pair of homologous chromosomes whereas the diagram of meiosis tracks two pairs of homologous chromosomes one long chromosome and short chromosome

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web review describe the different forms that dna takes before and during cell division in a eukaryotic cell identify the four phases of mitosis in an animal cell and summarize what happens during each phase explain what happens during cytokinesis in an animal cell

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