# 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 $\dfrac{1}{x} + \dfrac{x+2}{x^2} - \dfrac{-5}{2x}$

a. $\dfrac{1}{x} + \dfrac{x+2}{x^2} - \dfrac{-5}{2x}$

b. $= \dfrac{1}{x}\left(\dfrac{2x}{2x}\right) + \dfrac{x+2}{x^2}\left(\dfrac{2}{2}\right) - \dfrac{-5}{2x}\left(\dfrac{x}{x}\right)$

c. $= \dfrac{2x}{2x^2} + \dfrac{2x+4}{2x^2} - \dfrac{-5x}{2x^2}$

d. $= \dfrac{9x+4}{2x^2}$

a. The common denominator is $2x^2$.
b. Multiply.
c. Simplify.
d. Add and subtract the numerator.

## Multiplying & Dividing Rational Expressions

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

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

a. $\dfrac{4x}{8x}\left(\dfrac{-3x^2}{9x}\right)$

b. $= \dfrac{4x}{8x}\left(\dfrac{-3x^2}{9x}\right)$

c. $= \dfrac{1}{2}\left(\dfrac{-x}{3}\right)$

d. $= \dfrac{-x}{6}$

a. Original expression.
b. Divide out common factors.
c. Simplify.
d. 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 $\dfrac{6}{x+3} - \dfrac{1}{x} = \dfrac{x+1}{2x}$

a. $\dfrac{6}{x+3} - \dfrac{1}{x} = \dfrac{x+1}{2x}$

b. $\dfrac{6}{x+3}\cdot\dfrac{2x}{2x} - \dfrac{1}{x}\cdot\dfrac{2(x+3)}{2(x+3)} = \dfrac{x+1}{2x}\cdot\dfrac{(x+3)}{(x+3)}$

c. $\dfrac{12x}{2x(x+3)} - \dfrac{2x+6}{2x(x+3)} = \dfrac{x^2+4x+3}{2x(x+3)}$

d. $12x - (2x-6) = x^2+4x+3$

e. $0 = x^2 - 6x + 9$

f. $0 = (x-3)(x-3)$

g. $x = 3$

a. Original equation.
b. The common denominator is $2x(x+3)$.
c. Multiply.
d. Set the numerators equal to each other.
e. Set the equation equal to 0.
f. Factor.
g. 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: $5^2 \cdot 5^3 = 5^{2+3} = 5^5$

### Power of a Power
RULE $(a^m)^n = a^{mn}$  EX: $(9^2)^3 = 9^{2\cdot3} = 9^6$

### Power of a Product
RULE $(ab)^m = a^m b^m$  EX: $(2\cdot6)^2 = 2^2 \cdot 6^2$

### Quotient of Powers
RULE $\dfrac{a^m}{a^n} = a^{m-n}, a \ne 0$  EX: $\dfrac{2^7}{2^3} = 2^{7-3} = 2^4 = 16$

### Power of a Quotient
RULE $\left(\dfrac{a}{b}\right)^m = \dfrac{a^m}{b^m}, b \ne 0$  EX: $\left(\dfrac{6}{7}\right)^2 = \dfrac{6^2}{7^2}$

### Property of Negative Exponents
RULE $a^{-m} = \dfrac{1}{a^m}, a \ne 0$  EX: $4^{-2} = \dfrac{1}{4^2}$

### Zero Property of Exponents
RULE $a^0 = 1, a \ne 0$  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, $\log x$ 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: $\log_3(8\times6) = \log_3 8 + \log_3 6$

### Quotient Property
RULE $\log_a \dfrac{x}{y} = \log_a x - \log_a y$
EX: $\log_a \dfrac{5}{6} = \log_a 5 - \log_a 6$

### Power Property
RULE $\log_a x^r = r\log_a x$  EX: $\log_a 6^7 = 7\log_a 6$

## Natural Logarithms

A **natural logarithm**, ln, is used to represent $\log_e$, where $e = 2.71$. For the following properties, $x$ and $y$ are positive integers.

### Product Property
RULE $\ln xy = \ln x + \ln y$  EX: $\ln(4\times3) = \ln 4 + \ln 3$

### Quotient Property
RULE $\ln \dfrac{x}{y} = \ln x - \ln y$  EX: $\ln \dfrac{1}{2} = \ln 1 - \ln 2$

### Power Property
RULE $\ln x^r = y\ln x$  EX: $\ln 3^5 = 5\ln 3$

## Solving Exponential Equations

Use logarithms or natural logarithms to solve exponential equations.

EX: Solve $8^{3x} = 24$

a. $8^{3x} = 24$

b. $\log 8^{3x} = \log 24$

c. $3x\log 8 = \log 24$

d. $3x = \dfrac{\log 24}{\log 8}$

e. $x = \dfrac{\log 24}{3\log 8}$

f. $x = 0.51$

a. Original equation.
b. Take the log of each side.
c. Use the Power Property.
d. Divide each side by log8.
e. Divide each side by 3.
f. 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, $a > b$:
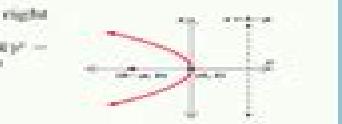
- Standard form: $\dfrac{(x-h)^2}{a^2} + \dfrac{(y-k)^2}{b^2} = 1$
- Center: $(h, k)$
- Foci: $(h - c, k)$ and $(h + c, k)$, where $c^2 = a^2 - b^2$
- Major axis: $y = k$
- Minor axis: $x = h$

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

- Standard form: $\dfrac{(x-h)^2}{a^2} + \dfrac{(y-k)^2}{b^2} = 1$
- 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 $p \ne 0$
- Vertex: $(h, k)$
- Foci: $(h, k + p)$
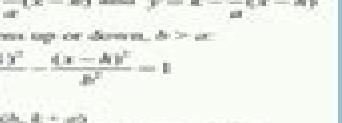- Directrix: $y = k - p$

When the parabola opens right or left:

- Standard form: $(y-k)^2 = 4p(x-h)$, where $p \ne 0$
- 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: $\dfrac{(x-h)^2}{a^2} - \dfrac{(y-k)^2}{b^2} = 1$
- Center: $(h, k)$
- Vertices: $(h - a, k)$ and $(h + a, k)$
- Foci: $(h - c, k)$ and $(h + c, k)$, where $c^2 = a^2 + b^2$
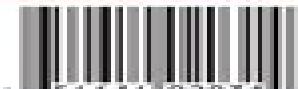- Asymptotes: $y = k + \dfrac{b}{a}(x-h)$ and $y = k - \dfrac{b}{a}(x-h)$

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

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

# Algebra Quick Study Guide

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