

▶ Favorites
 ▶ MapleCloud (Off)
 ▼ Variables

Variable	Value

 OO
 ▶ Handwriting
 ▼ Expression
 $a+b$ $a-b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
 $\sqrt[n]{a}$ $a!$ $|a|$
 e^a $\ln(a)$
 $\log_{10}(a)$ $\log_b(a)$
 $\sin(a)$ $\cos(a)$
 $\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n
 a_n $f(a)$
 $f(a, b)$ $f := a \rightarrow y$
 $f := (a, b) \rightarrow z$
 $f(x) \Big|_{x=a}$
 $\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$
 $\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$
 $\int_a^b f dx$
 ▶ Units (SI)
 ▶ Units (FPS)
 ▶ Common Symbols
 ▶ Matrix
 ▶ Components
 ▼ Greek
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New Document	New Worksheet	What's New?	Programming	Connectivity	App Authoring
Getting Started	Help	Calculus	Control Design	Curve Fitting	Differential Equations
<h1>Start</h1>					
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Learn how to create your own start page.					
Finance	Linear Algebra	Optimization	Natural Sciences	Sign	
Statistics and Probability	Applications	Visualization	Tools		

Palettes **Workbook**

Favorites

- MapleCloud (Off)

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Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

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Options

General **Display** Interface Export Precision Security Network

Input display: Maple Notation
Output display: 2-D Math Notation
Typesetting level: Maple Standard
Assumed variables: Trailing Tildes
Plot anti-aliasing: Enabled
Font anti-aliasing: Default
Plot display: Inline
Default Point Probe mode: None
Show task variables on insert: Only On Naming Conflict
Task content to insert: Standard Content

- Automatically display legends in 2-D plots
- Enable rollover highlighting in plots
- Use hardware acceleration for plots
- Always insert new execution group after executing
- Show equation labels
- Enable self-documenting context menu evaluations
- Expose commands inserted from Load/Unload Package menus



Palettes Workbook

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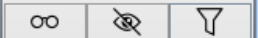
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Matrix

Components

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► Matrix

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Palettes Workbook

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▶ MapleCloud (Off)

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 Units (FPS)
 Common Symbols
 Matrix
 Components
 Greek
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▶ MapleCloud (Off)

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

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 ▶ MapleCloud (Off)
 ▼ Variables

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 ▶ Units (SI)
 ▶ Units (FPS)
 ▶ Common Symbols
 ▶ Matrix
 ▶ Components
 ▼ Greek
 Λ B Γ Δ E

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 Units (SI)
 Units (FPS)
 Common Symbols
 Matrix
 Components
 Greek
 Λ B Γ Δ E

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 Lucida Bright
 12
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 MapleCloud (Off)
 Variables

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 Units (SI)
 Units (FPS)
 Common Symbols
 Matrix
 Components
 Greek
 Λ B Γ Δ E

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 Lucida Bright
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 Units (SI)
 Units (FPS)
 Common Symbols
 Matrix
 Components
 Greek
 Λ B Γ Δ E

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Favorites
 MapleCloud (Off)
 Variables

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 Units (SI)
 Units (FPS)
 Common Symbols
 Matrix
 Components
 Greek
 A B Γ Δ E

C Text
 Lucida Bright
 12
 B I U

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 ▼ Variables

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 ▶ Units (FPS)
 ▶ Common Symbols
 ▶ Matrix
 ▶ Components
 ▼ Greek
 A B Γ Δ E

Palettes Workbook

▶ Favorites

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$$\frac{2}{5}$$

[> x/y;

$$\frac{x}{y}$$

[> (x+y)/y;

$$\frac{x + y}{y}$$

[> (x)^(2);

$$x^2$$

[> sqrt(x);

$$\sqrt{x}$$

[> x^(1/3);

$$x^{\frac{1}{3}}$$

[> ln(x);

Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
 $\sqrt[n]{a}$ $a!$ $|a|$
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 $\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n
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 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

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[> 2/5;

$$\frac{2}{5}$$

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$$\frac{x}{y}$$

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Palettes Workbook

► Favorites

► MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

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► Units (SI)

► Units (FPS)

► Common Symbols

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▼ Greek

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Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

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▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Favorites

MapleCloud (Off)

Variables

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Handwriting

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Units (FPS)

Common Symbols

Matrix

Components

Greek

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

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▶ Matrix

▶ Components

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Favorites
 MapleCloud (Off)
 Variables

Variable	Value

 Handwriting
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 Units (FPS)
 Common Symbols
 Matrix
 Components
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$$\frac{\ln(5)}{\ln(2)}$$

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏏

▶ Handwriting

▼ Expression

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▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

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Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

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Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

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Units (FPS)

Common Symbols

Matrix

Components

Greek

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Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

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▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

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Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏏

▶ Handwriting

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▶ Units (FPS)

▶ Common Symbols

▶ Matrix

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[> evalf(a);

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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞

▶ Handwriting

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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[ > x^(1/3);
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$$\sqrt[3]{x}$$

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[ > ln(x);
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$$x^{\frac{1}{3}}$$

$$\ln(x)$$

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[ > log[2](5);
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$$\frac{\ln(5)}{\ln(2)}$$

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[ > evalf(log[2](5));
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$$2.32192809$$

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[ > evalf(a);
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[ > restart;
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[ >
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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞

▶ Handwriting

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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[ > x^(1/3);
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[ > ln(x);
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[ > evalf(log[2](5));
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[ > restart;

[ > a;
                                     a

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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

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▶ Units (SI)

▶ Units (FPS)

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▶ Matrix

▶ Components

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A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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[ > x^(1/3);
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[ > ln(x);
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[ > log[2](5);
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[ > evalf(log[2](5));
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[ > a:=log[2](5);
                                     a := ln(5)
                                     ln(2)

[ > evalf(a);
                                     2.32192809

[ > restart;
[ > a;
                                     a

[ > a:=1;

```

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

$\ln(x)$

[> log[2](5);

$\frac{\ln(5)}{\ln(2)}$

[> evalf(log[2](5));

2.32192809

[> a:=log[2](5);

$a := \frac{\ln(5)}{\ln(2)}$

[> evalf(a);

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[> restart;

[> a;

a

[> a:=1;

$a := 1$

[>

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

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$f(x) \Big|_{x=a}$

$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

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C Text Lucida Bright 12 B I U

```

ln(x)

[ > log[2](5);

ln(5)
ln(2)

[ > evalf(log[2](5));

2.32192809

[ > a:=log[2](5);

a := ln(5)
ln(2)

[ > evalf(a);

2.32192809

[ > restart;
[ > a;

a

[ > a:=1;

a := 1

[ > ln(a);
    
```

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

e^a $\ln(a)$

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▶ Units (SI)

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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

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▶ Units (SI)

▶ Units (FPS)

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► Favorites

► MapleCloud (Off)

▼ Variables

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∞ 🔍 ⏏

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► MapleCloud (Off)

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                                     -1

[ >
```



Search

Products: Maple

Page Types: Application,Assistant,...

Table of Contents Search Results

- Getting Started
 - Maple Help System
 - Maple Portal
 - Shortcut Keys
 - How Do I...
 - Tutorials
 - Graphing Calculator
 - Maple Resources
 - Maple Tour
 - Math Dictionary
 - Menus
 - Quick Help - Detailed Information
 - Quick Start Guide
 - Style Guide
 - Tasks
 - Using Help
 - Web Resources
- What's New
- Create Maple Workbooks
- Create Maple Worksheets
- Share Maple Content
- Connectivity
- Mathematics
- Physics
- Statistics and Data Analysis
- Programming
- Graphics
- Science and Engineering
- Applications and Example Worksheets
- Math Apps
- Education
- Reference
- System
- Configure Maple
- Manuals
- Tasks

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[Using the Help System](#)

[Resources](#)

[Manuals](#)

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[Index of Commands](#)

[Index of Packages](#)

[Using Help](#)



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Products:

Page Types:

Table of Contents **Search Results**

- solve
- RegularChains (solve)
- dsolve (solve)
- fsolve (solve)
- intsolve (solve)
- isolve (solve)
- msolve (solve)
- pdsolve (solve)
- rsolve (solve)
- HowDoI,SolveAnOrdinaryDifferentialEquation (solve)
- LinearAlgebra,LinearSolve (solve)
- dsolve,system (solve)
- pdsolve,system (solve)
- solve,details (solve)
- solve,float (solve)
- solve,function (solve)
- solve,identity (solve)
- solve,ineq (solve)
- solve,linear (solve)
- solve,parametrized (solve)
- solve,radical (solve)
- solve,scalar (solve)
- solve,series (solve)
- solve,symbolic (solve)
- solve,system (solve)
- RealDomain (solve)
- updates,Maple17,AdvancedMath (solve)
- Definition,solve (solve)
- MTM,solve (solve)
- PDEtools,Solve (Solve)
- solve,parametric
- solvefor(deprecated)
- SolveTools (solvetools)
- DEtools,solve_group (solve_group)
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- SolveTools,Inequality,LinearMultivariateSystem (solvetools)
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- SolveTools,Inequality,LinearUnivariateSystem,LinearMultivariateSystem (solvetools)
- worksheet,expressions,clickablemath (solve)
- updates,Maple17,solveSemiAlgebraic (solve)
- updates,Maple17,solveSymbolic (solveSymbolic)
- Task,SolveEqnsimplifiedAugMatrix (solveeqnsimplified)
- examples,solve
- SolveTools,AbstractRootOfSolution
- SolveTools,Basis

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Welcome to the Maple Help System.

[Using the Help System](#)

[Resources](#)

[Manuals](#)

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See Also

[Index of Commands](#)
[Index of Packages](#)
[Using Help](#)



solve Search

Products:

Page Types:

Table of Contents Search Results

- [solve](#)
- [RegularChains \(solve\)](#)
- [dsolve \(solve\)](#)
- [fsolve \(solve\)](#)
- [intsolve \(solve\)](#)
- [isolve \(solve\)](#)
- [msolve \(solve\)](#)
- [pdsolve \(solve\)](#)
- [rsolve \(solve\)](#)
- [HowDoI, SolveAnOrdinaryDifferentialEquation \(solve\)](#)
- [LinearAlgebra, LinearSolve \(solve\)](#)
- [dsolve, system \(solve\)](#)
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- [solve, details \(solve\)](#)
- [solve, float \(solve\)](#)
- [solve, function \(solve\)](#)
- [solve, identity \(solve\)](#)
- [solve, ineq \(solve\)](#)
- [solve, linear \(solve\)](#)
- [solve, parametrized \(solve\)](#)
- [solve, radical \(solve\)](#)
- [solve, scalar \(solve\)](#)
- [solve, series \(solve\)](#)
- [solve, symbolic \(solve\)](#)
- [solve, system \(solve\)](#)
- [RealDomain \(solve\)](#)
- [updates, Maple17, AdvancedMath \(solve\)](#)
- [Definition, solve \(solve\)](#)
- [MTM, solve \(solve\)](#)
- [PDEtools, Solve \(Solve\)](#)
- [solve, parametric](#)
- [solvefor \(deprecated\)](#)
- [SolveTools \(solvetools\)](#)
- [DEtools, solve_group \(solve_group\)](#)
- [SolveTools, Inequality \(solvetools\)](#)
- [SolveTools, Inequality, LinearMultivariateSystem \(solve_group\)](#)
- [SolveTools, Inequality, LinearUnivariateSystem \(solve_group\)](#)
- [SolveTools, Inequality, LinearUnivariateSystem, LinearMultivariateSystem \(solve_group\)](#)
- [worksheet, expressions, clickablemath \(solve_group\)](#)
- [updates, Maple17, solveSemiAlgebraic \(solve_group\)](#)
- [updates, Maple17, solveSymbolic \(solve_group\)](#)
- [Task, SolveEqnsimplifiedAugMatrix \(solve_group\)](#)
- [examples, solve](#)
- [SolveTools, AbstractRootOfSolution](#)
- [SolveTools, Basis](#)

solve

solve one or more equations

[Calling Sequence](#)

[Parameters](#)

[Basic Information](#)

[Examples](#)

[Details](#)

Calling Sequence

`solve(equations, variables)`

Parameters

- equations - equation or inequality, or set or list of equations or inequalities
- variables - (optional) name or set or list of names; unknown(s) for which to solve

Basic Information

Description

- The **solve** command solves one or more equations or inequalities for their unknowns.

Output

- If the second argument is a name or a set of names, then the solutions to a single equation are returned as an expression sequence. If the second argument is a list, then the solutions are returned as a list.
- If the second argument is a name or a set of names, then the solutions to a set or list of equations are returned as sets of equation sequences. If the second argument is a list, then the solutions are returned as a sorted listlist of equations.
- If the **solve** command does not find any solutions, then if the second argument is a name or set of names, then the empty sequence (**NULL**) is returned; if the second argument is a list, then the empty list is returned. This means that there are no solutions, or the **solve** command cannot find the solutions. In the second case, a warning is issued, and the global variable `_SolutionsMayBeLost` is set to **true**.
- If the output of the **solve** command is a piecewise-defined expression, then the [assuming](#) command can be used to isolate the desired solution(s). If the output is not piecewise-defined, in particular, if the output is constant, assumptions on the independent variables may be ignored. If there are parameters in the input equations, the **solve** command will use those assumptions in its computations. See examples below.
- For higher degree polynomial equations, Maple returns implicit solutions in terms of [RootOf](#).

Examples

See Also

[dsolve](#)

[eliminate](#)

[fsolve](#)

[intsolve](#)

[LinearAlgebra\[LinearSolve\]](#)

[pdsolve](#)

[RealDomain](#)

[RootOf](#)

[singular](#)

[solve/details](#)

[SolveTools](#)



solve Search

Products: Maple

Page Types: Application,Assistant,...

Table of Contents Search Results

- [-] solve
- [-] RegularChains (solve)
- [-] dsolve (solve)
- [-] fsolve (solve)
- [-] intsolve (solve)
- [-] isolve (solve)
- [-] msolve (solve)
- [-] pdsolve (solve)
- [-] rsolve (solve)
- [-] HowDoI,SolveAnOrdinaryDifferentialEquation (solve)
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- [-] solve,parametrized (solve)
- [-] solve,radical (solve)
- [-] solve,scalar (solve)
- [-] solve.series (solve)
- [-] solve,symbolic (solve)
- [-] solve,system (solve)
- [-] RealDomain (solve)
- [-] updates,Maple17,AdvancedMath (solve)
- [-] Definition,solve (solve)
- [-] MTM,solve (solve)
- [-] PDEtools,Solve (Solve)
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- [-] examples,solve
- [-] SolveTools,AbstractRootOfSolution
- [-] SolveTools,Basis

Examples

Solve an implicit function

In this example, **solve** is used to express an implicit function in an explicit form

> `solve(2 x = 3, x)`

$$\frac{3}{2} \quad (1)$$

The second example illustrates the use of **solve** to get solution as an equation

> `solve(f = m a, a)`

$$\frac{f}{m} \quad (2)$$

Solve a quadratic equation

> `{solve(x2 - 3 x + 2 = 0, x)}`

$$\{1, 2\} \quad (3)$$

Specifying variables

To ignore parameters, specify the variables for which to solve.

> `{solve}\left(\left\{\frac{a^2 c^2 - 4 b^2}{b} = a^6 b - 4 a^3 b\right\}, \{c\}\right)`

$$\left\{\left\{c = \frac{b(a^3 - 2)}{a}\right\}, \left\{c = -\frac{b(a^3 - 2)}{a}\right\}\right\} \quad (4)$$

Solving linear systems

The **solve** command can solve linear systems.

> `solve(\{x + y + z = 2, 2 x + y = 3, z = 1\}, \{x, y, z\})`

$$\{x = 2, y = -1, z = 1\} \quad (5)$$

Solving inequations

The **solve** command can solve inequations.

> `{solve}\left(\{x + y < 10, x^2 = 9\}, \{x, y\}\right)`

$$\{\{x = -3, y < 13\}, \{x = 3, y < 7\}\} \quad (6)$$

Using the **assuming** command to isolate a solution

Assumptions on parameters can be used to get more specific solutions. Note also, the form of the output changes when variables are given in a list.

> `solve(x2 = a, [x]) assuming a::negative`

$$\left\{\left\{x = \sqrt{-a}\right\}, \left\{x = -\sqrt{-a}\right\}\right\} \quad (7)$$

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

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                                     a

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                                     a := 1

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                                     0

[ > a:=Pi;
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[ >
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Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

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Common Symbols

Matrix

Components

Greek

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$a := 1$

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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

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▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

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Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

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[ > restart;
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$$a$$

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[ > a:=1;
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[ > ln(a);
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$$0$$

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[ > cos(a);
```

$$-1$$

```
[ > solve(x^2=3*x-1, x);
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$$\frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

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[ >
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Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

e^a $\ln(a)$

$\log_{10}(a)$ $\log_b(a)$

$\sin(a)$ $\cos(a)$

$\tan(a)$ $\binom{a}{b}$ a_n

a_n $f(a)$

$f(a, b)$ $f := a \rightarrow y$

$f := (a, b) \rightarrow z$

$f(x) \Big|_{x=a}$

$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > a:=log[2](5);
```

$$a := \frac{\ln(5)}{\ln(2)}$$

```
[ > evalf(a);
```

$$2.32192809$$

```
[ > restart;
```

```
[ > a;
```

$$a$$

```
[ > a:=1;
```

$$a := 1$$

```
[ > ln(a);
```

$$0$$

```
[ > a:=Pi;
```

```
[ > cos(a);
```

$$-1$$

```
[ > b:=solve(x^2=3*x-1, x);
```

$$\frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

```
[ >
```

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

e^a $\ln(a)$

$\log_{10}(a)$ $\log_b(a)$

$\sin(a)$ $\cos(a)$

$\tan(a)$ $\binom{a}{b}$ a_n

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$f(a, b)$ $f := a \rightarrow y$

$f := (a, b) \rightarrow z$

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$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > a:=log[2](5);
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$$a := \frac{\ln(5)}{\ln(2)}$$

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[ > evalf(a);
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$$2.32192809$$

```
[ > restart;
```

```
[ > a;
```

$$a$$

```
[ > a:=1;
```

$$a := 1$$

```
[ > ln(a);
```

$$0$$

```
[ > a:=Pi;
```

```
[ > cos(a);
```

$$-1$$

```
[ > b:=solve(x^2=3*x-1, x);
```

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

```
[ >
```

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

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$\sqrt[n]{a}$ $a!$ $|a|$

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▶ Units (SI)

▶ Units (FPS)

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▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > a:=log[2](5);
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$$a := \frac{\ln(5)}{\ln(2)}$$

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[ > evalf(a);
```

$$2.32192809$$

```
[ > restart;
```

```
[ > a;
```

$$a$$

```
[ > a:=1;
```

$$a := 1$$

```
[ > ln(a);
```

$$0$$

```
[ > a:=Pi;
```

```
[ > cos(a);
```

$$-1$$

```
[ > b:=solve(x^2=3*x-1, x);
```

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

```
[ > evalf(b);
```

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏴

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

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$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > evalf(a);
                                     2.32192809

[ > restart;
[ > a;
                                     a

[ > a:=1;
                                     a := 1

[ > ln(a);
                                     0

[ > a:=Pi;
[ > cos(a);
                                     -1

[ > b:=solve(x^2=3*x-1, x);
                                     b := 3/2 + 1/2*sqrt(5), 3/2 - 1/2*sqrt(5)

[ > evalf(b);
                                     2.618033988, 0.381966012

[ >
```

Palettes Workbook

► Favorites

► MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

► Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

e^a $\ln(a)$

$\log_{10}(a)$ $\log_b(a)$

$\sin(a)$ $\cos(a)$

$\tan(a)$ $\binom{a}{b}$ a_n

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$f(a, b)$ $f := a \rightarrow y$

$f := (a, b) \rightarrow z$

$f(x) \Big|_{x=a}$

$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

► Units (SI)

► Units (FPS)

► Common Symbols

► Matrix

► Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > evalf(a);
                                     2.32192809

[ > restart;
[ > a;
                                     a

[ > a:=1;
                                     a := 1

[ > ln(a);
                                     0

[ > a:=Pi;
[ > cos(a);
                                     -1

[ > b:=solve(x^2=3*x-1, x);
                                     b := 3/2 + 1/2*sqrt(5), 3/2 - 1/2*sqrt(5)

[ > evalf(b);
                                     2.618033988, 0.381966012

[ > int(f, x);
```

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏏

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

e^a $\ln(a)$

$\log_{10}(a)$ $\log_b(a)$

$\sin(a)$ $\cos(a)$

$\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n

a_n $f(a)$

$f(a, b)$ $f := a \rightarrow y$

$f := (a, b) \rightarrow z$

$f(x) \Big|_{x=a}$

$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

[> evalf(a);

2.32192809

[> restart;

[> a;

a

[> a:=1;

a := 1

[> ln(a);

0

[> a:=Pi;

[> cos(a);

-1

[> b:=solve(x^2=3*x-1, x);

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

[> evalf(b);

2.618033988, 0.381966012

[> int(x^2, x);

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

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$\log_{10}(a)$ $\log_b(a)$

$\sin(a)$ $\cos(a)$

$\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n

a_n $f(a)$

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$f := (a, b) \rightarrow z$

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$\begin{cases} -x & x < a \\ x & x \geq a \end{cases} \sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

```
[ > restart;
[ > a;

                                     a

[ > a:=1;

                                     a := 1

[ > ln(a);

                                     0

[ > a:=Pi;
[ > cos(a);

                                     -1

[ > b:=solve(x^2=3*x-1, x);

                                     b := 3/2 + 1/2*sqrt(5), 3/2 - 1/2*sqrt(5)

[ > evalf(b);

                                     2.618033988, 0.381966012

[ > int(x^2, x);

                                     1/3 x^3

[ >
```

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
 $\sqrt[n]{a}$ $a!$ $|a|$
 e^a $\ln(a)$
 $\log_{10}(a)$ $\log_b(a)$
 $\sin(a)$ $\cos(a)$
 $\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n
 a_n $f(a)$
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 $\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$
 $\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$
 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;
```

$$a$$

```
[ > a:=1;
```

$$a := 1$$

```
[ > ln(a);
```

$$0$$

```
[ > a:=Pi;
[ > cos(a);
```

$$-1$$

```
[ > b:=solve(x^2=3*x-1, x);
```

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

```
[ > evalf(b);
```

$$2.618033988, 0.381966012$$

```
[ > int(x^2, x);
```

$$\frac{1}{3}x^3$$

```
[ > int();
```

Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
 $\sqrt[n]{a}$ $a!$ $|a|$
 e^a $\ln(a)$
 $\log_{10}(a)$ $\log_b(a)$
 $\sin(a)$ $\cos(a)$
 $\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n
 a_n $f(a)$
 $f(a, b)$ $f := a \rightarrow y$
 $f := (a, b) \rightarrow z$
 $f(x) \Big|_{x=a}$
 $\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$
 $\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$
 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;

[ > a:=1;

[ > ln(a);

[ > a:=Pi;
[ > cos(a);

[ > b:=solve(x^2=3*x-1, x);

[ > evalf(b);

[ > int(x^2, x);

[ > int(exp());
```

a

$a := 1$

0

-1

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

$2.618033988, 0.381966012$

$\frac{1}{3}x^3$

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
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 $\sin(a)$ $\cos(a)$
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 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;

[ > a:=1;

[ > ln(a);

[ > a:=Pi;
[ > cos(a);

[ > b:=solve(x^2=3*x-1, x);

[ > evalf(b);

[ > int(x^2, x);

[ > int(exp(x));
```

a

$a := 1$

0

-1

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

$2.618033988, 0.381966012$

$\frac{1}{3}x^3$

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
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 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;

[ > a:=1;

[ > ln(a);

[ > a:=Pi;
[ > cos(a);

[ > b:=solve(x^2=3*x-1, x);

[ > evalf(b);

[ > int(x^2, x);

[ > int(exp(x)*);
```

a

$a := 1$

0

-1

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

2.618033988, 0.381966012

$$\frac{1}{3}x^3$$

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Variables

Variable	Value

Handwriting

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$a + b$ $a - b$ $a \cdot b$
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 $\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$
 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;
```

a

```
[ > a:=1;
```

$a := 1$

```
[ > ln(a);
```

0

```
[ > a:=Pi;
[ > cos(a);
```

-1

```
[ > b:=solve(x^2=3*x-1, x);
```

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

```
[ > evalf(b);
```

2.618033988, 0.381966012

```
[ > int(x^2, x);
```

$\frac{1}{3}x^3$

```
[ > int(exp(x)*sin());
```

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
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 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

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A B Γ Δ E

```
[ > restart;
[ > a;

[ > a:=1;

[ > ln(a);

[ > a:=Pi;
[ > cos(a);

[ > b:=solve(x^2=3*x-1, x);

[ > evalf(b);

[ > int(x^2, x);

[ > int(exp(x)*sin(x));
```

a

$a := 1$

0

-1

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

$2.618033988, 0.381966012$

$\frac{1}{3}x^3$

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

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 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

```
[ > restart;
[ > a;

[ > a:=1;

[ > ln(a);

[ > a:=Pi;
[ > cos(a);

[ > b:=solve(x^2=3*x-1, x);

[ > evalf(b);

[ > int(x^2, x);

[ > int(exp(x)*sin(x), x);
```

a

$a := 1$

0

-1

$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$

$2.618033988, 0.381966012$

$\frac{1}{3}x^3$

Palettes Workbook

Text Math Drawing Plot Animation

C Text Lucida Bright 12 B I U

Hide

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏴

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

$\sqrt[n]{a}$ $a!$ $|a|$

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$\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n

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$f(a, b)$ $f: a \rightarrow y$

$f: (a, b) \rightarrow z$

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$\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$

$\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$

$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

[> a:=1;

$$a := 1$$

[> ln(a);

$$0$$

[> a:=Pi;

[> cos(a);

$$-1$$

[> b:=solve(x^2=3*x-1, x);

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

[> evalf(b);

$$2.618033988, 0.381966012$$

[> int(x^2, x);

$$\frac{1}{3}x^3$$

[> int(exp(x)*sin(x), x);

$$-\frac{1}{2}e^x \cos(x) + \frac{1}{2}e^x \sin(x)$$

[>

Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
 $\frac{a}{b}$ a^b \sqrt{a}
 $\sqrt[n]{a}$ $a!$ $|a|$
 e^a $\ln(a)$
 $\log_{10}(a)$ $\log_b(a)$
 $\sin(a)$ $\cos(a)$
 $\tan(a)$ $\begin{pmatrix} a \\ b \end{pmatrix}$ a_n
 a_n $f(a)$
 $f(a, b)$ $f: a \rightarrow y$
 $f: (a, b) \rightarrow z$
 $f(x) \Big|_{x=a}$
 $\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$ $\sum_{i=k}^n f$
 $\prod_{i=k}^n f$ $\frac{d}{dx} f$ $\int f dx$
 $\int_a^b f dx$

Units (SI)

Units (FPS)

Common Symbols

Matrix

Components

Greek

A B Γ Δ E

[> a:=1;

$$a := 1$$

[> ln(a);

$$0$$

[> a:=Pi;

[> cos(a);

$$-1$$

[> b:=solve(x^2=3*x-1, x);

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

[> evalf(b);

$$2.618033988, 0.381966012$$

[> int(x^2, x);

$$\frac{1}{3}x^3$$

[> int(exp(x)*sin(x), x);

$$-\frac{1}{2}e^x \cos(x) + \frac{1}{2}e^x \sin(x)$$

[> int(f, x=a..b);

Palettes Workbook

Text Math Drawing Plot Animation

Text Lucida Bright 12 B I U

Hide

Variables

Variable	Value

Handwriting

Expression

$a + b$ $a - b$ $a \cdot b$
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[> int(x^2, x);

$$\frac{1}{3}x^3$$

[> int(exp(x)*sin(x), x);

$$-\frac{1}{2}e^x \cos(x) + \frac{1}{2}e^x \sin(x)$$

[> int(x/(x^2 + 1)^2, x=a..b);

Palettes Workbook

Text Math Drawing Plot Animation

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Hide

Variables

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Handwriting

Expression

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Units (FPS)

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Components

Greek

A B Γ Δ E

```
[ > a:=1;
[ > ln(a);
[ > a:=Pi;
[ > cos(a);
[ > b:=solve(x^2=3*x-1, x);
[ > evalf(b);
[ > int(x^2, x);
[ > int(exp(x)*sin(x), x);
[ > int(x/(x^2 + 1)^2, x=0..1);
```

$$a := 1$$

$$0$$

$$-1$$

$$b := \frac{3}{2} + \frac{1}{2}\sqrt{5}, \frac{3}{2} - \frac{1}{2}\sqrt{5}$$

$$2.618033988, 0.381966012$$

$$\frac{1}{3}x^3$$

$$-\frac{1}{2}e^x \cos(x) + \frac{1}{2}e^x \sin(x)$$

Palettes Workbook

▶ Favorites

▶ MapleCloud (Off)

▼ Variables

Variable	Value

∞ 🔍 ⏚

▶ Handwriting

▼ Expression

$a + b$ $a - b$ $a \cdot b$

$\frac{a}{b}$ a^b \sqrt{a}

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$\int_a^b f dx$

▶ Units (SI)

▶ Units (FPS)

▶ Common Symbols

▶ Matrix

▶ Components

▼ Greek

A B Γ Δ E

Text Math Drawing Plot Animation

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```
[ > ln(a);
                                0

[ > a:=Pi;
[ > cos(a);
                                -1

[ > b:=solve(x^2=3*x-1, x);
                                b := 3/2 + 1/2*sqrt(5), 3/2 - 1/2*sqrt(5)

[ > evalf(b);
                                2.618033988, 0.381966012

[ > int(x^2, x);
                                1/3 x^3

[ > int(exp(x)*sin(x), x);
                                -1/2 e^x cos(x) + 1/2 e^x sin(x)

[ > int(x/(x^2 + 1)^2, x=0..1);
                                1/4

[ >
```