

SMART Notebook™ Maths Tools

Windows® operating systems

User's guide



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Chapter 1

Introduction to SMART Notebook Maths Tools

If you install SMART Notebook ™ Maths Tools on your computer, SMART Notebook software includes mathematical features, such as equation editing, handwriting recognition for mathematical terms, additional shape tools, graph generation and a launcher for Texas Instruments ™ (TI) emulators.

Using the Maths toolbar

The Maths toolbar enables you to select and use a variety of maths-specific commands and tools in the SMART Notebook software window.

The following table describes the functions of each button in the Maths toolbar.

Button	Command	Action
Σ	Equations	Insert equations.
A	Irregular Polygons	Insert irregular polygons.
	Regular Polygons	Insert regular polygons.
€	Measurement Tools	Use a ruler, protractor or compass.
ΞΣ	Graph Tables	Insert graph tables.
7	Graphs	Insert Cartesian, quadrant or number line graphs.
4	Launch Emulator	Launch the Texas Instruments (TI) emulator.

You can add any of the buttons from the Maths toolbar to the SMART Notebook software toolbar and then hide the Maths toolbar.

To hide the Maths toolbar

1. Right-click the SMART Notebook software toolbar.

The Customise Toolbar dialogue box appears.

Introduction to SMART Notebook Maths Tools

- 2. Customise the SMART Notebook software toolbar to include the maths tools that you want to use.
- 3. Clear the **Show Secondary Toolbar** tickbox.
- 4. Press **Done**.

I NOTE

To restore the Maths toolbar, right-click the SMART Notebook software toolbar, select the Show Secondary Toolbar tickbox, and then press Done.

Chapter 2 Working with equations

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You can insert or write equations in .notebook file pages using SMART Notebook Maths Tools.

You can solve inserted or written mathematical expressions at any time.

Inserting equations

You can insert equations into a page using the Equation Editor.

To insert equations

- 1. Press Equations Σ .
- 2. Press where you want to place the equation.

The Equation Editor and a text box appear.

3. Type the numerals that you want to add to your equation. Press the buttons in the *Equation Editor* for the mathematical terms that you want to add to your equation.

Working with equations

4. Once you have finished creating your equation, press outside of the text object.

I NOTE

If you insert a mathematical expression, you can solve the expression (see *Solving mathematical expressions* on page 7). You can also generate a graph based on this equation (see *Generating graphs from equations* on page 19).

Writing equations

You can write equations on the page using pen tray pens (on interactive whiteboards) or a tethered pen and pen tool buttons (on interactive pen displays).

I NOTE

You can also insert equations using the Equation Editor (see *Inserting equations* on the previous page).

To write equations

1. Press **Pens** and then select an available line type.

I NOTE

Don't select a creative pen.

- 2. Write the equation on the interactive screen using the tips in the following sections.
- 3. Press the equation's menu arrow, and then select **Recognise Maths Ink**.

The equation appears surrounded by a blue border. A green circle \bigcirc and a red circle \bigcirc appear below the equation.

If the equation appears correctly, press the green circle ♥.

NOTES

- SMART Notebook Maths Tools recognises many characters, including numbers, operators, Roman letters, Greek letters and other mathematical symbols (see Recognised mathematical symbols on page 6).
- SMART Notebook Maths Tools also recognises many mathematical functions (see Recognised mathematical functions on page 6).
- If you write a mathematical expression, you can solve it (see Solving mathematical expressions on page 7). You can also generate a graph based on this equation (see Generating graphs from equations on page 19).

If your equation appears incorrectly, press the red circle , erase the equation and write it again. Don't attempt to write over your original equation.

Tips for writing equations

Consider the following when you write equations:

- Write each symbol clearly and don't overlap symbols.
- Leave space between the characters, symbols, formulae and equations that you write.
- Draw a multiplication symbol as a six-pointed asterisk, for example, imes imes .



- If your equation involves multiple lines, such as fractions, leave space between these lines. However, don't separate a single line equation over multiple lines.
- Align superscripts, such as exponents, to the right of and above the adjacent character or symbol. Don't allow a character and a superscript to overlap.
- Write problems sequentially from left to right and from top to bottom.
- Tap to make a decimal point. Don't draw a tiny ball or scribble a mark.
- Don't use j as a variable unless you're writing a trigonometric expression or a complex expression. Don't use i or o as variables unless you're writing a trigonometric expression.
- Don't use e as a variable unless you're writing an exponential expression.
- Enclose exponents in parentheses.

Tips for writing trigonometric equations

Consider the following when you write trigonometric equations:

- Enclose variables in parentheses, for example, sin (x).
- Separate multiple trigonometric expressions using a multiplication sign, for example, sin(A)*cos(A).

Tips for writing logarithmic equations

Consider the following when you write exponents, logarithms and geometric series:

- SMART Notebook Maths Tools recognises log (N) as log₁₀N.
- SMART Notebook Maths Tools recognises logM as logm or logM (natural log).
- SMART Notebook Maths Tools supports log₂M and log₁₀M only.
- Write the natural logarithm (In) as log
- Write log₂ as log2. Write log₁₀ as log10.SMART Notebook Maths Tools doesn't support subscripts.

Tips for solving multiple line equations

SMART Notebook Maths Tools can solve some multiple-lined equations if you select all the equations, press the equation's menu arrow and then select Recognise Maths Ink.

Recognised mathematical symbols

SMART Notebook Maths Tools recognises the mathematical symbols and functions in your equation and converts them into typed text.SMART Notebook Maths Tools recognises many symbols, including numbers, operators, Roman letters, Greek letters and other mathematical symbols.

Numbers

Operators

Roman letters

Greek letters

Other mathematical symbols

Recognised mathematical functions

SMART Notebook Maths Tools recognises the mathematical symbols and functions in your equation and converts them into typed text.SMART Notebook Maths Tools recognises mathematical functions in the following categories:

- Logarithmic functions
- Trigonometric functions

Logarithmic functions

log (a)	natural logarithm
log10 (a)	base 10 logarithm
log2 (a)	base 2 logarithm

Trigonometric functions

inverse cos function
inverse sin function
inverse tan function
cos function
hyperbolic cos function
cot function
hyperbolic cot function
cosecant function
secant function
sin function
sinc function
sinh function
tan function
tanh function

Solving mathematical expressions

If you insert or write a mathematical expression on a page, you can solve this expression and display the complete equation using the available menu options.

NOTES

- You can also generate graphs from equations (see *Generating graphs from equations* on page 19).
- SMART Notebook Maths Tools can solve some equations numerically but not symbolically, and it can solve some equations symbolically but not numerically. If a solution type isn't available, you're unable to select it in the menu.

To solve an expression numerically

- 1. Select the equation.
- Press the equation's menu arrow and then select Maths Actions > Simplify Numerically.

To solve an expression symbolically

- 1. Select the equation.
- Press the equation's menu arrow and then select Maths Actions > Simplify Symbolically.

Working with equations

To find an equation's zero value

- 1. Select the equation.
- 2. Press the equation's menu arrow and then select **Maths Actions > Find Zeroes**.

To find an equation's minimum and maximum values

- 1. Select the equation.
- 2. Press the equation's menu arrow and then select **Maths Actions > Find Extrema**.

Chapter 3 Working with shapes

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With SMART Notebook Maths Tools, you can create regular and irregular polygons and then edit these shapes' interior angles, side lengths and vertices.

You can also divide a circle, square or rectangle into separate pieces of equal area.

Inserting regular polygons

You can insert regular polygons with 3 to 15 sides using the Regular Polygons tool.

To insert a regular polygon

- 1. Press **Regular Polygons** and then select the number of sides (the number in the polygon represents the number of sides).
- 2. Create a shape by pressing where you want to place the shape and dragging until the shape is the size that you want.

Inserting irregular polygons

In addition to creating shapes using the SMART Notebook software Shapes tool, you can insert irregular polygons using the Irregular Polygons tool.

To insert irregular polygons

- 1. Press Irregular Polygons .
- 2. Press where you want to place the shape's first vertex.

The first vertex appears as a small red circle.

Working with shapes

3. Press where you want to place the next vertex.

A line appears between the two vertices.

- 4. Repeat step 3 to add more vertices.
- 5. Press the first vertex's red circle to stop adding vertices and complete the shape.

I NOTE

Once you have created an irregular polygon, you can display its interior angles and display its side lengths (see *Displaying interior angles* below and *Displaying and editing side lengths* below).

Displaying interior angles

You can display the interior angles of a shape.

NOTES

- If you display these angles and then edit the vertices of the shape (see Displaying and editing the vertices of a shape on the next page), SMART Notebook Maths Tools updates the labels and displays the new interior angles.
- You can also display side lengths (see Displaying and editing side lengths below).

To display interior angles

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select Show/Hide Interior Angles.

I NOTE

To hide interior angles, press the shape's menu arrow and then select **Show/Hide Interior Angles** again.

Displaying and editing side lengths

You can display the side lengths of a shape. If you edit the displayed length, SMART Notebook Maths Tools recalculates and displays the lengths of the other sides.

NOTES

- If you display these lengths and then edit the vertices of the shape (see Displaying and editing the vertices of a shape on the next page), SMART Notebook Maths Tools updates the labels and displays the new side lengths.
- You can also display interior angles (see Displaying interior angles above).

To display side lengths

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select Show/Hide Side Lengths.

SMART Notebook Maths Tools calculates the lengths based on the ruler's default units.

NOTE

To hide side lengths, press the shape's menu arrow and then select **Show/Hide Side Lengths** again.

To edit side lengths

- 1. If you haven't done so already, display the side lengths.
- 2. Double-click the side length that you want to change.
- 3. Type the new length.
- 4. Press somewhere else on the page.

SMART Notebook Maths Tools recalculates and displays the lengths of the other sides.

Displaying and editing the vertices of a shape

You can edit the position of a shape's vertices. If you're displaying the shape's interior angles or side lengths, SMART Notebook Maths Tools updates the labels and displays the new interior angles or side lengths automatically.

To display the vertices of a shape

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select **Show/Hide Vertices**.

A red circle replaces each of the shape's vertices.

To edit the vertices of a shape

- 1. If you haven't done so already, display the shape's vertices.
- 2. Drag a red circle to move that vertex.
- 3. When you finish editing the shape's vertices, press anywhere else on the page.

To hide the vertices of a shape

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select Show/Hide Vertices again.

Dividing shapes

You can divide a circle, square or rectangle into separate pieces of equal area. You can then edit and manipulate these pieces as individual objects.



NOTE

You're unable to divide other shape types in this way.

To divide a shape

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select **Shape Division**.

The Shape Division dialogue box appears.

- 3. Select the number of pieces that you want to divide the shape into from the *Divide shape* into drop-down list.
- 4. PressOK.

The shape divides into separate objects.

Chapter 4 Working with graphs

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With SMART Notebook Maths Tools, you can create Cartesian, quadrant and number line graphs, as well as generate graphs from equations and tables and tables from graphs.

Inserting Cartesian graphs

You can insert a Cartesian graph into a page. You can include the default Cartesian graph or create a graph with customised axes and insert this instead. Once you have inserted the graph, you can add points to it.

I NOTE

Once you have inserted the graph, you can also manipulate its position, size and rotation, as well as customise its title, axes and labels (see *Manipulating graphs* on page 17 and *Customising graphs* on page 18).

To insert the default Cartesian graph

Press **Graphs** and then press **Cartesian** .

A Cartesian graph appears.

To insert a customised Cartesian graph

1. Press **Graphs** and then press **Wizard**. The *Insert Graph* dialogue box appears.

Working with graphs

2. Select Cartesian and then press Next.

The customisation fields appear.

- 3. If you want to change the increments of the numbers along either of the graph's axes, type a different *Step* value or increase it using the up and down arrows.
- 4. Type numbers to define the *Start* and *End* points of the x (horizontal) axis and y (vertical) axis or change these numbers using the up and down arrows .
- 5. To display a graph without horizontal lines, clear the **Horizontal Lines** tickbox.
- 6. To display a graph without vertical lines, clear the Vertical Lines tickbox.
- 7. To display a graph without numbers on the axes, clear the **Show Numbers** tickbox.
- 8. Press Finish.

To insert points in the graph

- 1. Double-click the position in the graph where you want to place a point.
- 2. Repeat step 1 until you've placed all the points you want to add to the graph.

I NOTE

You can generate a table of values based on your graph (see *Generating tables from graphs* on page 20).

To remove points from the graph

- 1. Double-click the point that you want to remove.
- 2. Repeat step 1 until you've removed all the points that you want to remove from the graph.

Inserting quadrant graphs

You can insert a quadrant graph into a page. You can include the default quadrant graph or create a graph with customised axes and insert this instead. After you've inserted the graph, you can add points to it.

NOTE

Once you have inserted the graph, you can also manipulate its position, size and rotation, as well as customise its title, axes and labels (see *Manipulating graphs* on page 17 and *Customising graphs* on page 18).

To insert the default quadrant graph

Press **Graphs** and then press **Quadrant**.

A quadrant graph appears.

To insert a customised quadrant graph

- Press Graphs and then press Wizard .
 The Insert Graph dialogue box appears.
- 2. Select Quadrant and then press Next.

The customisation fields appear.

- 3. If you want to change the increments of the numbers along either of the graph's axes, type a different *Step* value or increase it using the up and down arrows .
- 4. Type numbers to define the *Start* and *End* points of the x (horizontal) axis and y (vertical) axis or change these numbers using the up and down arrows .
- 5. To display a graph without horizontal lines, clear the **Horizontal Lines** tickbox.
- 6. To display a graph without vertical lines, clear the Vertical Lines tickbox.
- 7. To display a graph without numbers on the axes, clear the **Show Numbers** tickbox.
- 8. Press Finish.

To insert points in the graph

- 1. Double-click the position in the graph where you want to place a point.
- 2. Repeat step 1 until you've placed all the points you want to add to the graph.

NOTE

You can generate a table of values based on your graph (see *Generating tables from graphs* on page 20).

To remove points from the graph

- 1. Double-click the point that you want to remove.
- 2. Repeat step 1 until you've removed all the points that you want to remove from the graph.

Inserting number line graphs

You can insert a number line graph into a page. You can include the default number line or create a customised axis and insert this instead.

I NOTE

Once you have inserted the graph, you can also manipulate its position, size and rotation, as well as customise its title, axes and labels (see *Manipulating graphs* on page 17 and *Customising graphs* on page 18).

To insert the default number line graph

Press **Graphs** and then press **Number Line**

A number line graph appears.

To insert a customised number line graph

- Press Graphs and then press Wizard .
 The Insert Graph dialogue box appears.
- 2. Select Number Line and then press Next.

The customisation fields appear.

- 3. If you want to change the increments of the numbers along the axis, type a different *Step* value or increase it using the up and down arrows .
- 4. Type numbers to define the *Start* and *End* points of the axis or change these numbers using the up and down arrows .
- 5. To display a graph without numbers on the axes, clear the **Show Numbers** tickbox.
- 6. Press Finish.

Selecting graphs

Before you can manipulate a graph or access its menu options, you must select it.

Once you have selected the graph, you can:

- · Move the graph.
- · Customise the graph.
- Generate a table from the graph.

To select the graph

- 1. Press Select .
- 2. Press outside but near to the upper-right-hand corner of the graph and then drag a rectangle to the opposite corner.

A selection rectangle appears around the graph.

- The white circle in the graph's lower-right-hand corner is a resize handle.
- The downward arrow in the graph's upper-right-hand corner is a menu arrow.

Manipulating graphs

You can insert a Cartesian graph or quadrant graph into a page or generate a graph from an equation or a table of values. Once you have inserted the graph, you can move or change the zoom level of this graph.

I NOTE

You can also customise a graph's title, axes and labels (see *Customising graphs* on the next page).

To move a graph

1. Select the graph.

A selection rectangle appears around the graph.

2. Press somewhere inside the border but outside of the graph and then drag to a different position on the page.

To change a graph's zoom level

1. Select the graph.

A selection rectangle appears around the graph.

2. If no icons appear below the graph, press the two downward arrows in the graph's lower-right-hand corner.

Eight icons appear below the graph.

3. Press De to zoom in.

OR

Press Pro zoom out.

To display a different part of a graph

1. Select the graph.

A selection rectangle appears around the graph.

2. If no icons appear below the graph, press the two downward arrows in the graph's lower-right-hand corner.

Eight icons appear below the graph.

- 3. Press the hand icon .
- 4. Drag the graph.

Working with graphs

5. When SMART Notebook Maths Tools displays the part of the graph that you want to view, press the hand icon 4 again.

Customising graphs

You can insert a Cartesian graph or quadrant graph into a page or generate a graph from an equation or a table of values. Once you have inserted the graph, you can customise the title of the graph and edit the start point, end point, labels and grid lines of its axes. You can also add a line of best fit based on the points in the graph.

I NOTE

You can also manipulate a graph's position and size (see *Manipulating graphs* on the previous page).

To customise a graph using the hidden menu

1. Select the graph.

A selection rectangle appears around the graph.

- 2. If no icons appear below the graph, press the two downward arrows [▼] in the graph's lower-right-hand corner.
- 3. Use the following icons to customise the graph:

Button	Command	Action
	Show/Hide Lines	Display horizontal and vertical lines on the graph
(,)	Show/Hide Point Labels	Display point labels
(X)	Show/Hide Line of Best Fit	Display a line of best fit, based on the points that you add to the graph
123	Show/Hide Numbers	Display numbers on the axes
	Show/Hide X/Y Labels and Titles	Display labels on the axes and a title above the graph

To customise a graph using the Properties tab

- 1. Select the graph.
- 2. Press the graph's menu arrow and then select Properties.
- 3. If you want to include a label above the graph, type it in the *Title* box.

Working with graphs

4. Do the following:

- To display numbers on the axes, select **Show Numbers** or clear this tickbox to remove them.
- To display vertical lines, select Vertical Lines or clear this tickbox to remove them.
- To display horizontal lines, select Horizontal Lines or clear this tickbox to remove them.
- To display point labels, select Show Point Labels or clear this tickbox to remove them.
- To change the labels on the axes, the range of the axes or the increments of the numbers on the axes, type new values for the Label, Start, End and Step.

Generating graphs from equations

If you insert or write an equation, you can generate and display a graph based on the equation.

To generate a graph from an equation

- 1. Select the equation.
- 2. Press the equation's menu arrow and then select **Maths Actions > Generate Graph**.

The graph appears.

NOTE

Once you have inserted the graph, you can also manipulate its position, size and rotation, as well as customise its title, axes and labels (see *Manipulating graphs* on page 17 and *Customising graphs* on the previous page).

If you update the information in the equation, SMART Notebook Maths Tools updates the graph.

To break the connection between an equation and a graph

1. Select the equation or the graph.

A blue highlight appears around both the equation and the graph. An X in a blue circle appears between them.

2. Press the X symbol S.

If you update the information in the equation and the connection is broken, SMART Notebook Maths Tools doesn't update the graph.

To reconnect an equation and a graph

1. Select the equation.

A blue highlight appears around the table and a small blue square appears beside it.

2. Select the blue square and drag it over the graph.

Generating graphs from tables

You can create a table of values and then generate a graph based on these values.

To generate a graph from a table

1. Press Graph Tables .

A grid appears.

2. Move the pointer over the grid to select the number of rows that you want in the table. The cells of the grid correspond to the cells of your table.

The table appears on the page.

- 3. Type values into the table's cells.
- 4. Press the table's menu arrow, and then select **Maths Actions > Generate Graph**.

If you update the information in the table, SMART Notebook Maths Tools updates the graph and vice versa.

To break the connection between a graph and a table

1. Select the table or the graph.

A blue highlight appears around both the table and the graph. An X in a blue circle appears between them.

2. Press the X symbol S.

If you update the information in the table and the connection is broken, SMART Notebook Maths Tools doesn't update the graph and vice versa.

To reconnect a graph and a table

1. Select the table.

A blue highlight appears around the table and a small blue square appears beside it.

2. Select the blue square and drag it over the graph.

Generating tables from graphs

If you insert a Cartesian or quadrant graph and then insert points into it, you can generate a table of values based on these points.

To generate a table from a graph

- 1. Select the graph.
- 2. Press the graph's menu arrow and then select Maths Actions > Generate Table.

If you add or remove the points in the graph, SMART Notebook Maths Tools updates the table and vice versa.

To break the connection between a table and a graph

1. Select the table or the graph.

A blue highlight appears around both the table and the graph. An X in a blue circle appears between them.

2. Press the X symbol S.

If you update the information in the graph and the connection is broken, SMART Notebook Maths Tools doesn't update the table and vice versa.

To reconnect a table and a graph

1. Select the table.

A blue highlight appears around the table and a small blue square appears alongside it.

2. Select the blue square and drag it over the graph.

Adding shapes to graphs

You can add a shape to a graph and then display the coordinates of its vertices.

To add a shape to a graph

- 1. Create a shape.
- 2. Press the shape and drag it over the graph.

To display the coordinates of the shape's vertices

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select Show/Hide Vertex Points.

NOTE

To hide the coordinates, press the shape's menu arrow and then select **Show/Hide Vertex Points** again.

Working with graphs

To display side lengths

- 1. Select the shape.
- Press the shape's menu arrow and then select Show/Hide Side Lengths.
 SMART Notebook Maths Tools calculates the lengths based on the graph's units.

To reflect the shape

- 1. Select the shape.
- 2. Press the shape's menu arrow and then select Reflect Shape.
- 3. Select Reflect over X=0, Reflect over Y=0, Reflect over Y=X or Reflect over Y=-X.

A reflection of the shape appears on the graph. The original shape doesn't move.

Chapter 5

Launching Texas Instruments emulators

If you install TI-Nspire[™], TI-SmartView[™] 84 or TI-SmartView 73 software on your computer, you can launch it from the Maths toolbar.

NOTES

- A Texas Instruments (TI) emulator isn't included with SMART Notebook Maths Tools software and this feature works only if TI software is already installed on your computer.
- You can download software from the Internet that describes itself as a TI emulator or includes features similar to a TI emulator. However, pressing the Launch Emulator button launches only fully licensed versions of TI emulators.

To launch the Texas Instruments emulator

1. Press Launch Emulator

If TI-Nspire, TI-SmartView 84 or TI-SmartView 73 software is installed on your computer, an icon appears with the name of your software.

2. Press this icon.