

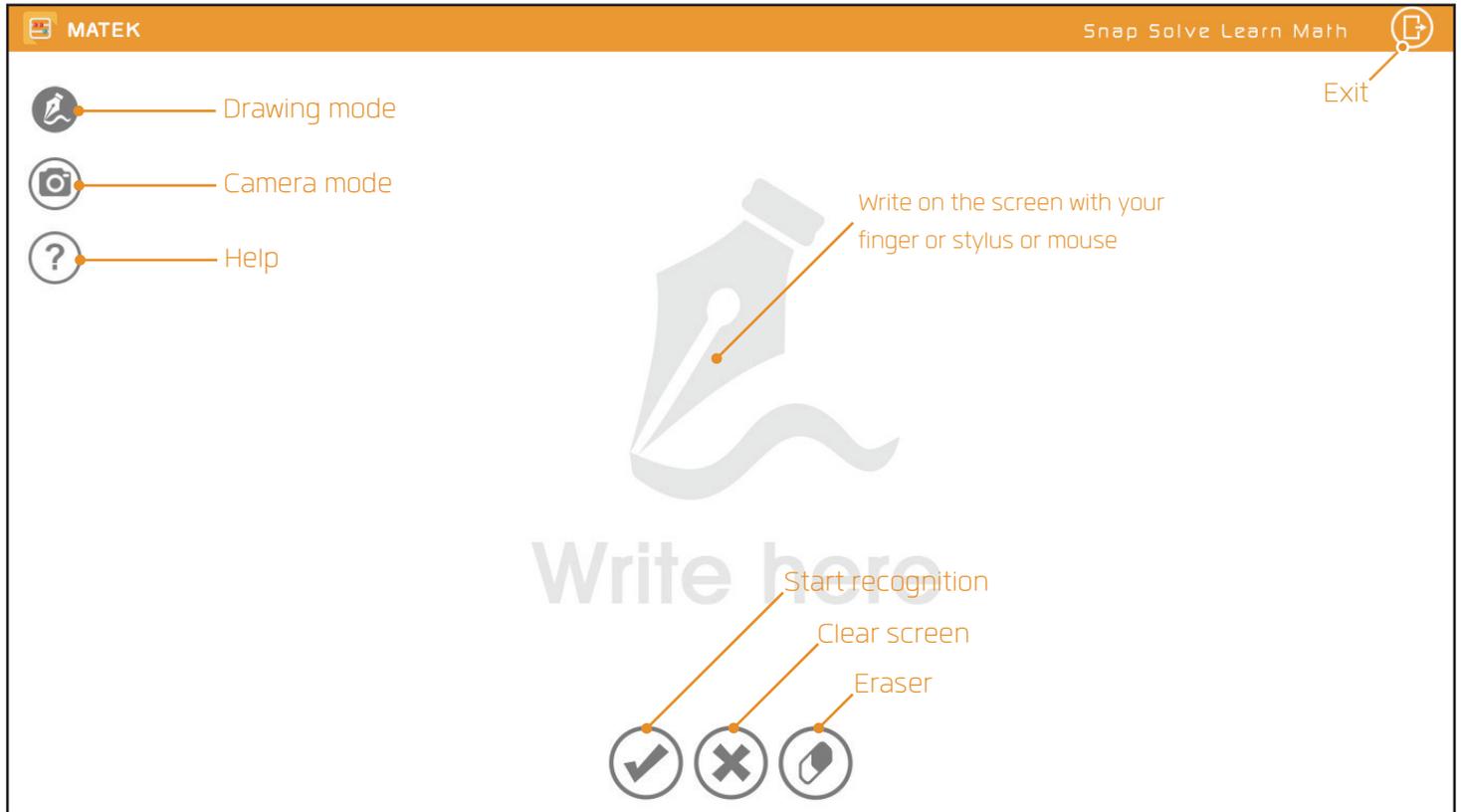
MATEK

Snap Solve Learn Math

V1.0

User guide

Main functions on main screen



Drawing

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Draw on the screen the equation
what you want to solve and press
the "finish" button!

$$4x - 7 = 8(x + 3)$$

Click here when you
finished the drawing

Click here to erase a
part of the drawing



Camera capture

The screenshot shows the MATEK app interface. At the top, there is a header bar with the MATEK logo on the left and the text "Snap Solve Learn Math" on the right. Below the header, there is a vertical sidebar on the left containing three circular icons: a pencil, a camera, and a question mark. The main area of the app is a dark grey board with the handwritten equation $4x - 1 = 8(x + 3)$ in the center. In the bottom right corner of the board, there is a camera icon. An orange callout box in the upper right corner contains the text: "You can use your webcam also to capture equations, please note: use clear, separated characters with high contrast!". A line points from the camera icon to a text box that says: "Click on the button or the screen to take a snapshot". Another line points from the camera icon to the text box that says: "Click here to use camera mode".

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Click here to use camera mode

$4x - 1 = 8(x + 3)$

Click on the button or the screen to take a snapshot

You can use your webcam also to capture equations, please note: use clear, separated characters with high contrast!

Camera capture

The screenshot shows the MATEK app interface. At the top, there is a header with the MATEK logo on the left and 'Snap Solve Learn Math' on the right. On the left side of the main screen, there is a vertical toolbar with three icons: a pencil, a camera, and a question mark. The main area of the screen is a light gray background with a handwritten equation $4x - 1 = 8(x + 3)$ in the center. In the bottom right corner of the main screen, there are two circular buttons: one with a checkmark and one with an 'X'. An orange callout box on the right side of the screen contains text about using a webcam. An orange callout box on the left side of the screen contains text about selecting equations. A smaller inset window in the bottom left shows a grid of various mathematical equations, with one equation highlighted in a blue box. A line points from the text 'Click here to start the recognition' to the checkmark button, and another line points from the text 'Click here to start the camera over' to the 'X' button.

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You can use your webcam also to capture equations, please note: use clear, separated characters with high contrast!

$4x - 1 = 8(x + 3)$

For better and faster result please always select the equation by click or tap on the screen.

If the snapshot is clear and high contrast click here to start the recognition

Click here to start the camera over

Some important notes

✓
$$\frac{2x + 8}{2} = 72$$

✗
$$\frac{2x + 8}{2} = 72$$

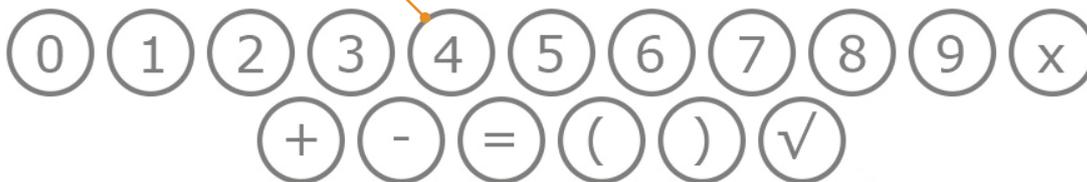
For better result please try to write with clear, not connected, high contrast characters. If you use camera mode please try to use white paper and high contrast pen. If you want to capture from squared paper the high contrast is even more important!

Handwritten mathematical examples on grid paper:

- $\frac{32x}{67} = 8x - 12(x+6)$ (marked with ✗)
- $\frac{6x+8}{4} = 12x - 71x + 7$ (marked with ✗)
- $\frac{4x}{2} = 12x - 7 + 7$ (marked with ✓)
- $9x - 7 = \frac{(8x)^2}{2}$ (marked with ✓)
- $\frac{38x}{2} = \frac{7x^2 - 8}{6(x-7)}$ (marked with ✓)
- $2x + 8 = 4x - 7$ (marked with ✗)

Some important notes

The list of characters what you can use



In this software version you can solve linear and quadratic equations with one variable (which should be "x")



$$3x + 7 = 12$$



$$\frac{3(x - 1)}{2} = \frac{1}{2}x$$



$$\frac{x^2}{10} = 8x - 7$$



$$x^3 + 2x^2 = 12x - 5$$



$$\sin x + 2 = \frac{12}{2x}$$



$$2y + 8 = 3y - 12$$

Result of the recognition



On this screen you check if the recognition is correct, on this screen you can correct the result and get help to solve it.

This is the result of the recognition

$$4x - 1 = 8(x + 3)$$

Edit the equation

Back



Hint (Help for the next step)

Full solution step by step

Copy to clipboard

Show on diagram



Expression editor

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Here you can edit the recognized expression. You can change, insert, move a character and choose the correct result.

You can change, move, resize the selected character

$$4x - 1 = 8(x + 3)$$

$$4x - 1 = 8(x + 3)$$

$$4x - 1 = 8x553$$

$$4x - 1 = 8(x - 3)$$

Choose the correct result

0 1 2 3 4 5 6 7 8 9 x

+ - = () $\sqrt{\quad}$

With keyboard, you can change the selected character, or insert a new one if there is no selection

Functions - Hint



$$4x - 1 = 8(x + 3)$$

Add 1 to both sides. 

An idea for the next step

Further information and explanation about this step for better understanding

If you need just a little help to find the next step, push the "Hint" button and you will get an idea what you can do to step forward.

$$4x - 1 = 8(x + 3)$$

Add 1 to both sides. 

$$4x = 8(x + 3) + 1$$

Push the "Hint" button again, you can see the next step.

You can change, move, resize the selected character



Functions - Full solution



$$4x - 1 = 8(x + 3)$$

Add 1 to both sides. **i**

$$4x = 8(x + 3) + 1$$

Subtract $8(x + 3)$ from both sides. **i**

$$4x - 8(x + 3) = 1$$

Distribute 8 over $x + 3$, we get $8x + 8 \cdot 3$. **i**

$$4x - 8x - 24 = 1$$

Combine like terms in $4x - 8x$, we get $-4x$. **i**

$$-4x - 24 = 1$$

Add 24 to both sides. **i**

$$-4x = 25$$

Divide both sides by -4 . **i**

$$x = -\frac{25}{4}$$

Click here to get the full solution



Full solution shows you all the important steps to solve the equation. If you need further explanation for understanding click on the "info" button!

Functions - Share

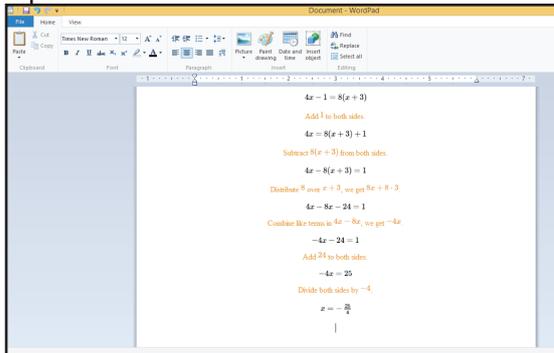
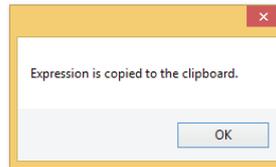
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With share function you can copy the equation, graph or the solution into an email or any document.

$$4x - (x + 3)$$



Push this button to copy the solution on the clipboard

Functions - Diagram

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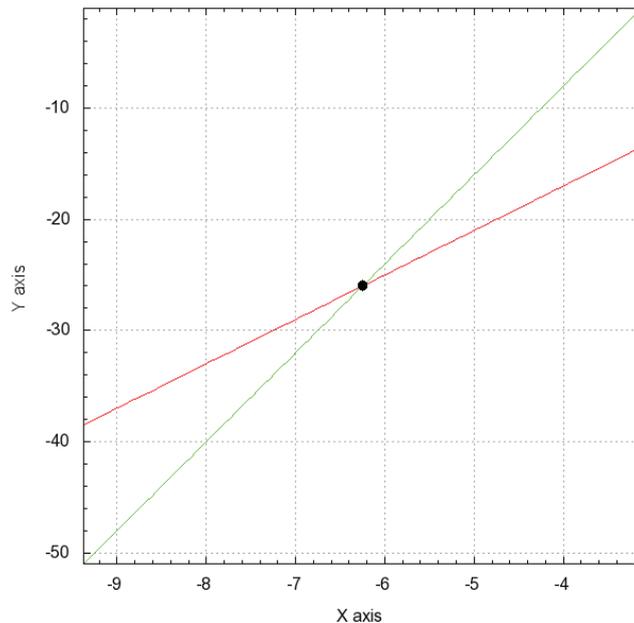
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$$y = 4x - 1$$



$$y = 8(x + 3)$$



With this function you can check the graphical solution of the equation.



Push this button and show the solution on a diagram