

## Anita 841/8041 JavaScript simulation

This JavaScript model is designed to run as a popup window from an html browser such as Netscape or Internet Explorer that supports JavaScript 1.1.

The model is meant to operate in the same way as the actual calculator, and the javascript code has been tested with all the examples from the original Anita 841 manual, with some additional tests thrown in. However, no guarantee is given that it simulates all operations 100%. Found defects gladly received (see below for contact details)

The LAUNCH.HTM file may be used to activate the model into a popup window.

The model itself may be controlled with either the mouse and cursor or the keyboard. The buttons and switches may be operated by clicking the mouse with the cursor over the relevant button, or a mapped keyboard key pressed to affect the same operation.

The keyboard for the 841 is mapped as follows:

Calc	Key	Calc	Key	Calc	Key	Calc	Key
<i>On</i>	<b>o</b>					<i>rad/d°</i>	<b>d</b>
<i>c</i>	<b>c</b>	+/-	<b>s</b>	↕	<b>i</b>	<i>f</i>	<b>f</b>
<i>7</i>	<b>7</b>	<i>8</i>	<b>8</b>	<i>9</i>	<b>9</b>	÷	<b>/</b>
<i>4</i>	<b>4</b>	<i>5</i>	<b>5</b>	<i>6</i>	<b>6</b>	x	<b>*</b>
<i>1</i>	<b>1</b>	<i>2</i>	<b>2</b>	<i>3</i>	<b>3</b>	-	<b>-</b>
<i>0</i>	<b>0</b>	<i>.</i>	<b>.</b>	<i>=</i>	<b>=</b>	+	<b>+</b>

The keyboard for the 8041 is mapped as follows:

Calc	Key	Calc	Key	Calc	Key	Calc	Key
<i>On</i>	<b>o</b>					<i>rad/d°</i>	<b>d</b>
<i>c</i>	<b>c</b>	↕	<b>i</b>	+/-	<b>s</b>	<i>f</i>	<b>f</b>
<i>7</i>	<b>7</b>	<i>8</i>	<b>8</b>	<i>9</i>	<b>9</b>	÷	<b>/</b>
<i>4</i>	<b>4</b>	<i>5</i>	<b>5</b>	<i>6</i>	<b>6</b>	x	<b>*</b>
<i>1</i>	<b>1</b>	<i>2</i>	<b>2</b>	<i>3</i>	<b>3</b>	-	<b>-</b>
<i>0</i>	<b>0</b>	<i>.</i>	<b>.</b>	<i>=</i>	<b>=</b>	+	<b>+</b>

Note that the keyboard mappings are case sensitive. The relevant keyboard key is displayed if the cursor is placed over a button or switch as an aid to memory; but hopefully the mappings are mostly obvious.

### **Note on accuracy**

This model uses higher precision than the original Anita 841 in calculating the math functions, and as a consequence the last decimal places may differ from that actually seen on the device. The difference is of the order of < 0.01 % however, in favour of the

model. Also, the speed of calculation is modelled only approximately, to give a feel for which operations takes time. So all the trigonometric and logarithmic functions (including  $x^y$ , but not square root) take approximately 1.5 seconds. The calculator, according to the manual, can take up to 3 seconds, but I have not seen this length, and all the calculations seem to give about the same delay.

Any problems, questions or issues arising from the model may be directed to [simon\\_southwell@bigfoot.com](mailto:simon_southwell@bigfoot.com)

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July 2004