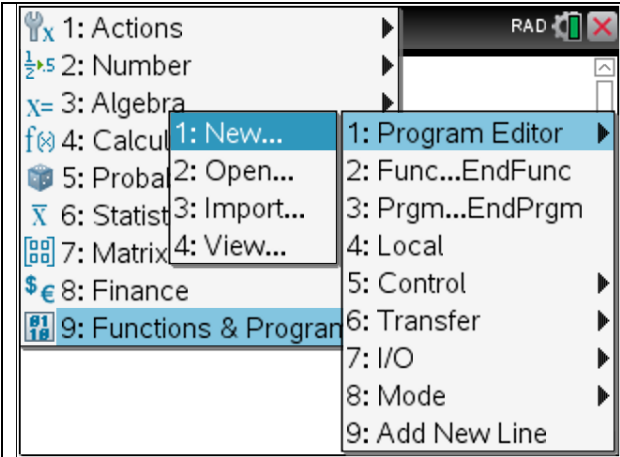
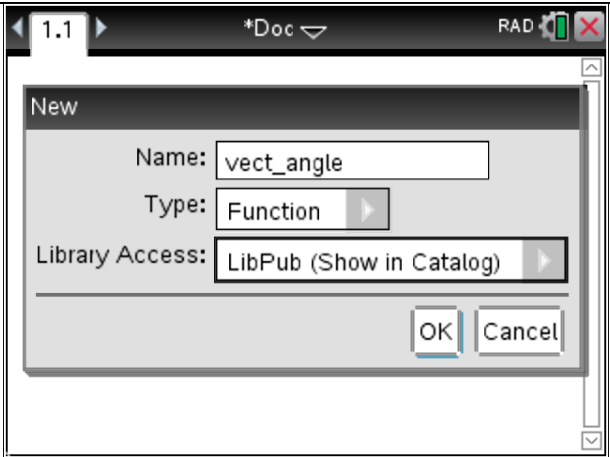
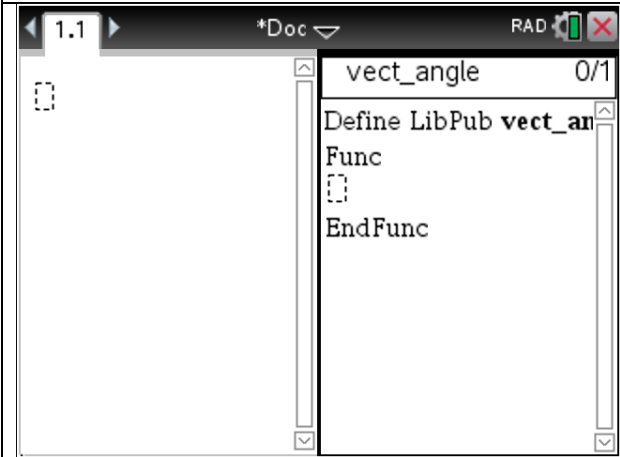
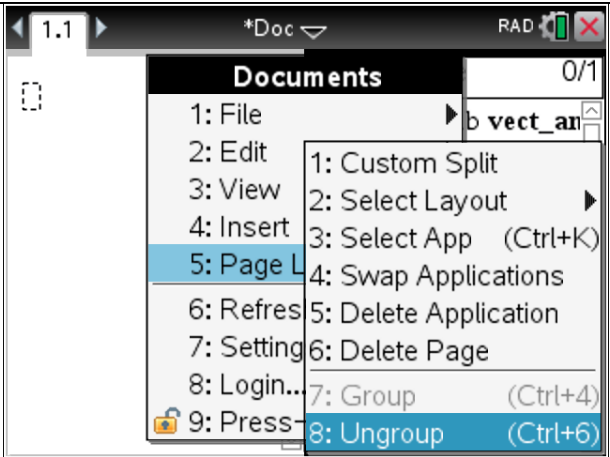
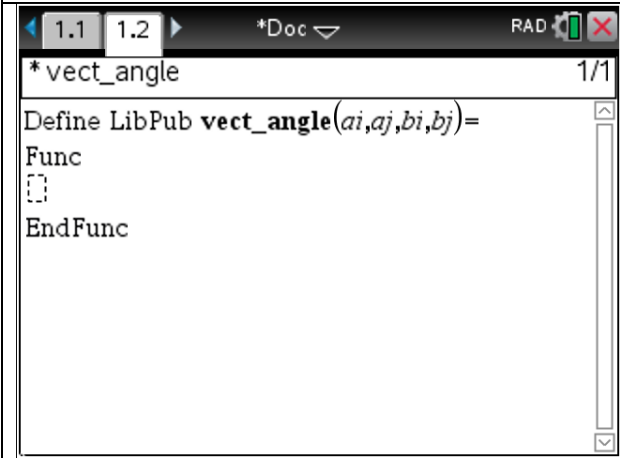
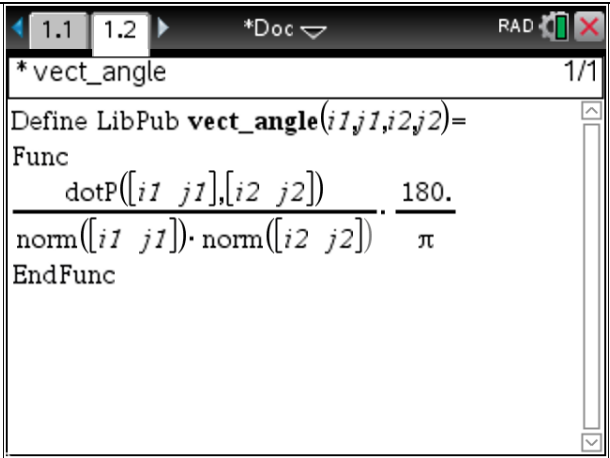
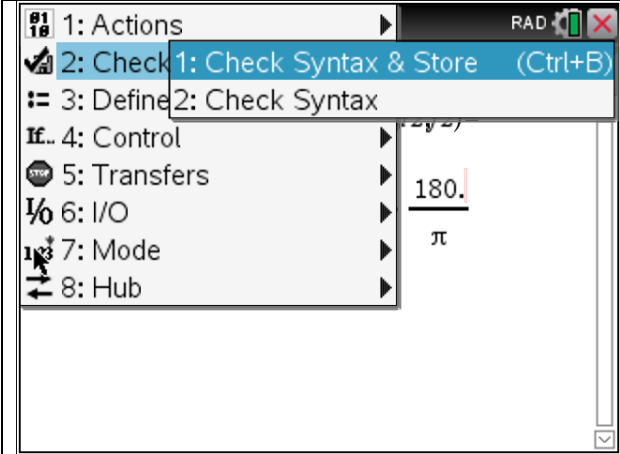
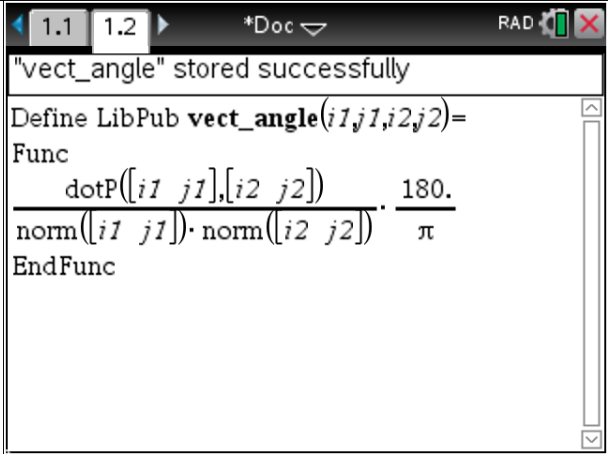
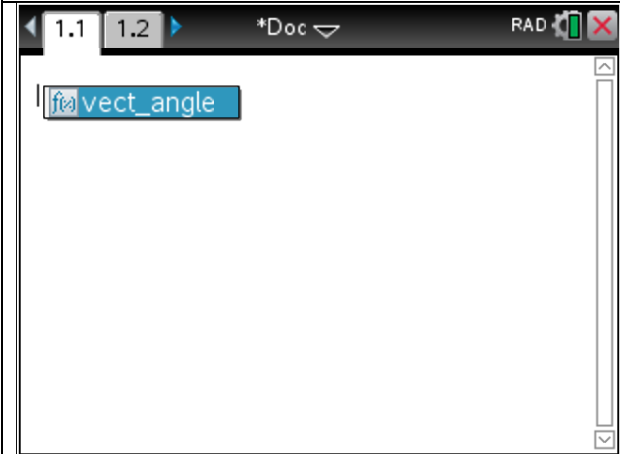

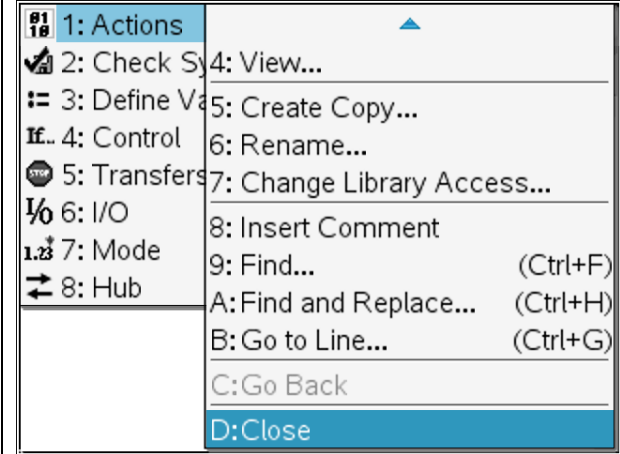
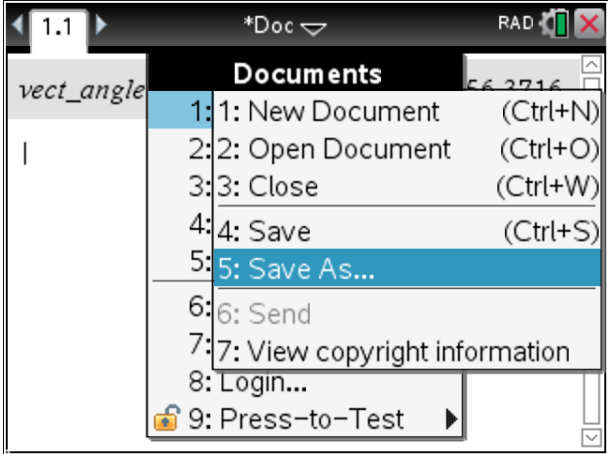
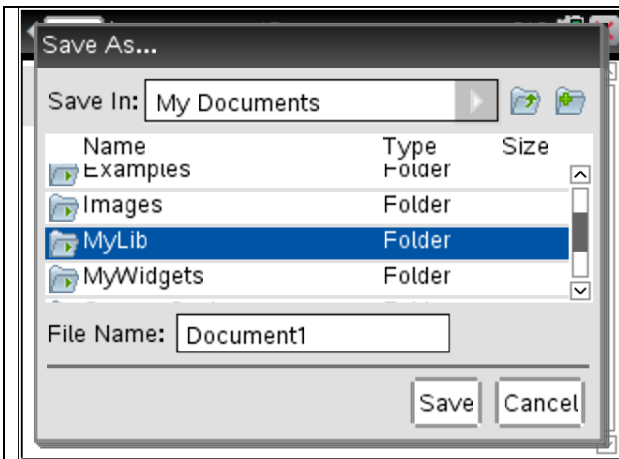


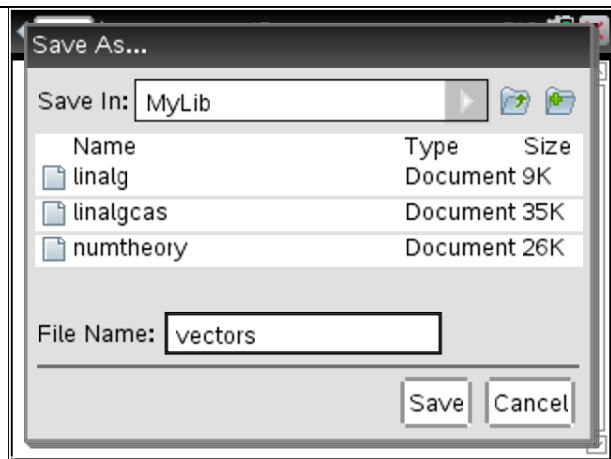
## Creating Functions using TI-Nspire CAS

	
<p>Open a <b>Calculator</b> page.</p> <p>Press <b>menu &gt; Functions &amp; Programs*</b></p> <p><b>&gt; Program Editor &gt; New.</b></p> <p>*Alternatively press <b>ctrl + I &gt; Programming.S</b></p>	<p>In the <b>Name:</b> field, enter <b>vect_angle</b></p> <p>In the <b>Type:</b> field, select <b>Function</b></p> <p>In the <b>Library Access:</b> field, select <b>LibPub (Show in Catalog)</b></p> <p><b>(Show in Catalog).</b></p>
	
<p>If the programming window appears in a split screen, ungroup the windows.</p>	<p>Press <b>doc &gt; Page Layout &gt; Ungroup</b> to view the separate screens (shortcut <b>ctrl + 6</b>).</p>
	
<p>Go to page <b>1.2</b> and enter the parameters shown.</p>	<p>Enter the function shown. Note – enter the right hand brackets as they are not automatically inserted.</p>

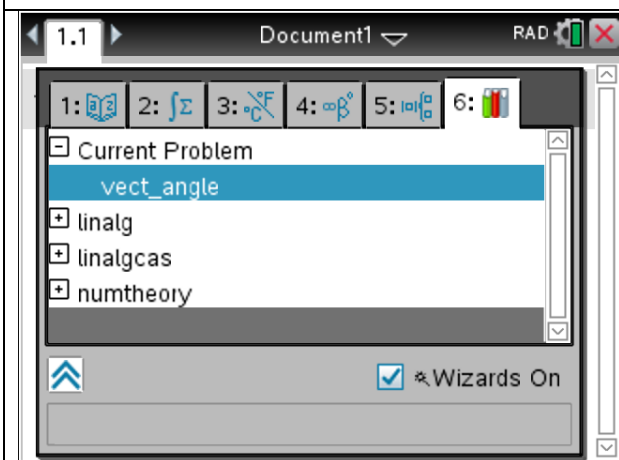
	
<p>Press menu &gt; Check Syntax &amp; Store &gt; Check Syntax &amp; Store.</p>	<p>If the syntax is correct, the message ‘stored successfully’ will appear at the top of the screen.</p>
	
<p>Move to page 1.1. Press the <b>var</b> key and select <b>vect_angle</b>.</p>	<p>Input four parameters and press <b>enter</b>. The angle between the vectors will be displayed.</p>
	
<p>Move to page 1.2. Press <b>Actions</b> &gt; <b>Close</b>.</p>	<p>Press the <b>doc</b> key and select <b>Save As</b>.</p>



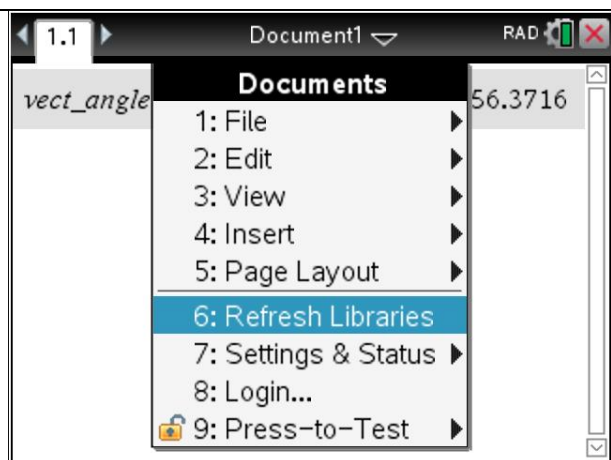
Scroll down to select the **MyLib** folder (this is important).



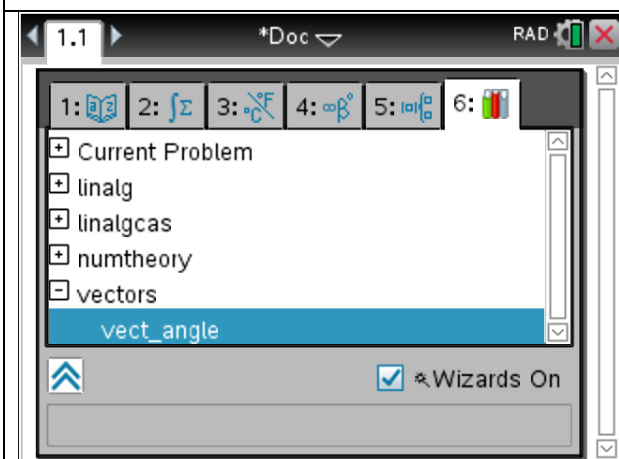
Enter a name for the document (e.g. **vectors**).



Press the **catalog** key and select tab **6**.  
When you select **Current Problem**, the name of the function will be displayed.



Press the **doc** key and select **Refresh Libraries** (this is important).



Open a **Calculator** page in a new document.  
Press the **catalog** key and select tab **6**.



The function is now accessible in the catalog for all documents.

Try writing a function to find the angle between vectors in three dimensions.