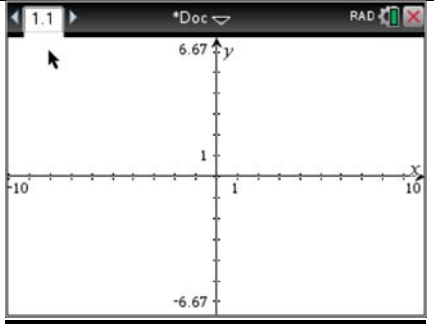
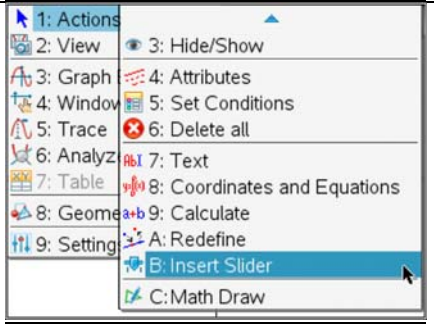
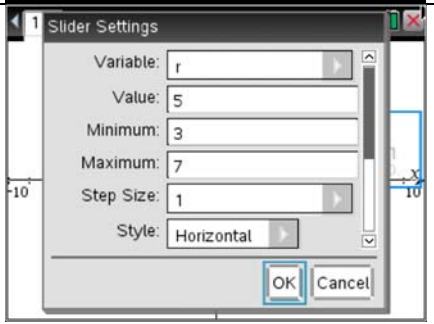
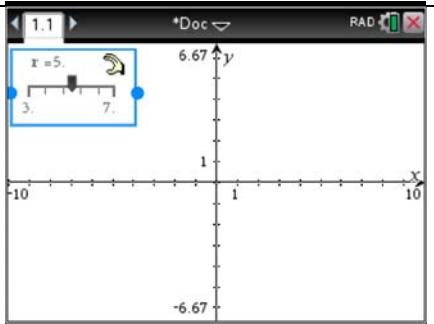
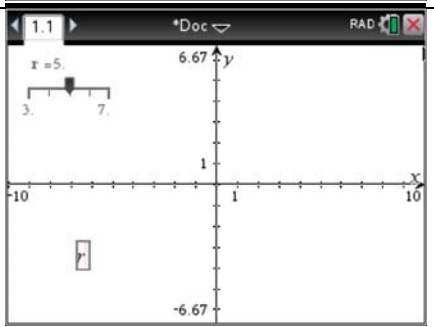
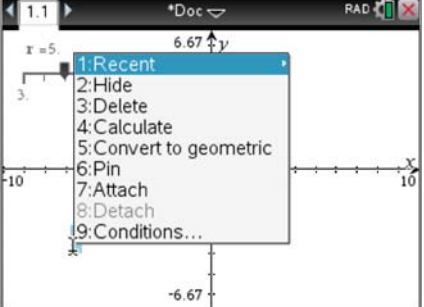
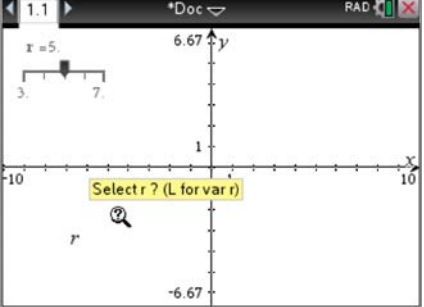
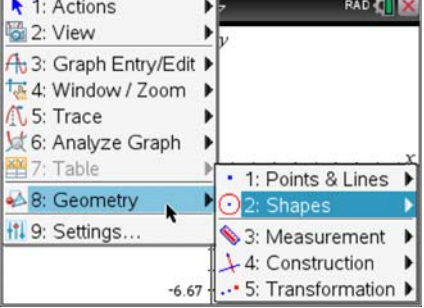
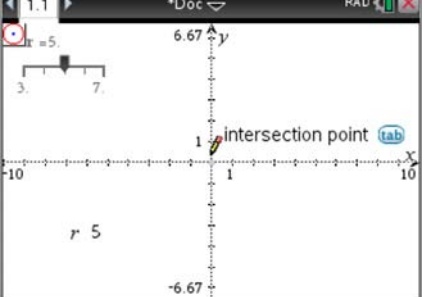
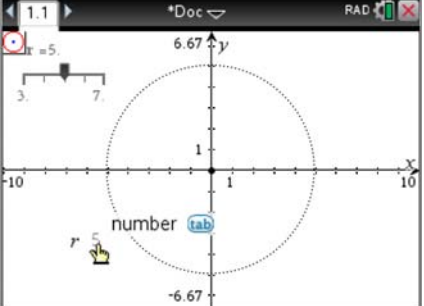
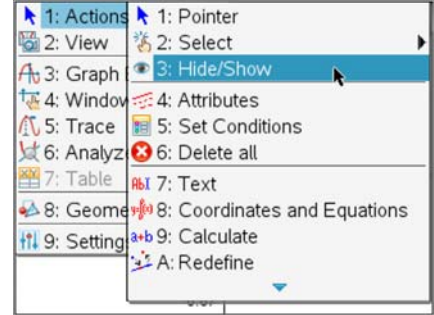


## Steps to create a circle with slider-controlled radius

<p>Create a new document and select 3: Add Graphs.</p>	
<p>Press <b>menu</b> and select 1: Actions B: Insert Slider.</p>	
<p>Change the slider variable name to <math>r</math>, and set the minimum and maximum values to 3 and 7, and step size to 1. Click the OK button.</p>	
<p>Grab the slider and drag it to the upper left corner of the screen. Also, it bothers me that the tick marks don't match up with the Step Size I specified in the previous step, so I suggest you "grab" one of the blue dots on the edge of the slider to adjust the width until you have an appropriate number of tick marks.</p>	
<p>Next we need to get a value on screen, controlled by the slider, that will in turn link to our circle. Right click in a blank area of the screen and choose 5: Text to open a text box. Type an "r" in that box, and press Enter.</p>	

<p>Now we'll calculate a value for that r we typed onscreen. Right click the r and select 4: Calculate from the menu.</p>	
<p>Type the letter L to indicate you want to use the variable r for the value. A grey number with the current value of r will appear with the cursor. Click near the text r to drop the value there..</p>	
<p>Now we'll make the circle. Press <b>menu</b> and select 8: Geometry 2: Shapes 1: Circle</p>	
<p>Click once at the intersection of the x- and y-axes for the center of your circle.</p>	
<p>Then click on the value you calculated a few steps ago to set the radius of your circle. You now will have a circle, centered on the origin, and with radius controlled by the slider. Verify things are linked properly by sliding the bar on the slider, changing its value.</p>	

Now you can clean up by hiding screen elements you don't need, or which may distract students. Press **menu** and select 1: Actions 3: Hide/Show. Click an element to hide it. I suggest you hide the text  $r$  and the calculated value next to it.



Now you have a page with a circle whose radius is controlled remotely by a slider. You can continue to modify this basic setup according to your lesson design.

