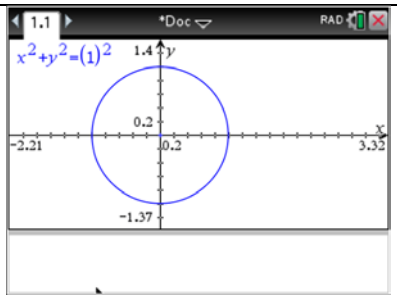
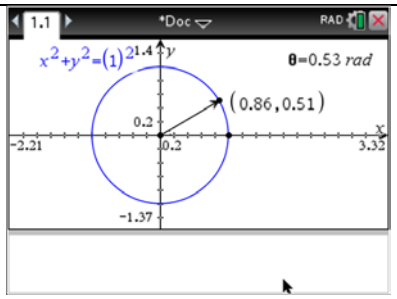
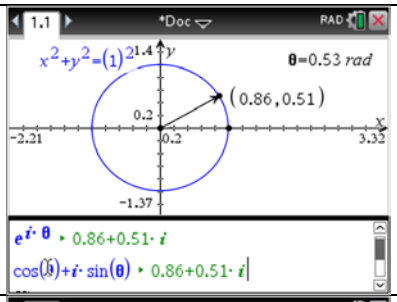
Euler Formula with TI-Nspire

Preparing TI-Nspire file for student exploration

1. Open new TI-Nspire document and Insert Graphs page. 2. Graph unit circle at the origin with radius 1 by using menu 3 3 3 1 3. Choose horizontal split layout doc 5 2 3. Insert Notes page 4. Adjust size of Notes page by choosing Custom split and using up and down arrows 5. Select Zoom: square and adjust the scale	
6. Draw a vector from an origin to a point on a circle menu 8 1 8 7. Measure angle menu 8 3 4 8. Store angle value to variable θ - move cursor over the value and press ctrl menu π and select θ 9. Adjust precision to 2 digits – move cursor over the value and press ctrl menu 10. Measure coordinates of the point, adjust precision to 2 digits	
11. In the Notes insert Math Box: menu 3 1. Then enter two expressions as shown on the screen shot 12. Adjust attributes of Math Box to show float 2 13. Drag endpoint of the vector around the circle to compare two expressions	
14. Enter exact coordinates of the endpoint to find value of $e^{i\pi}$.