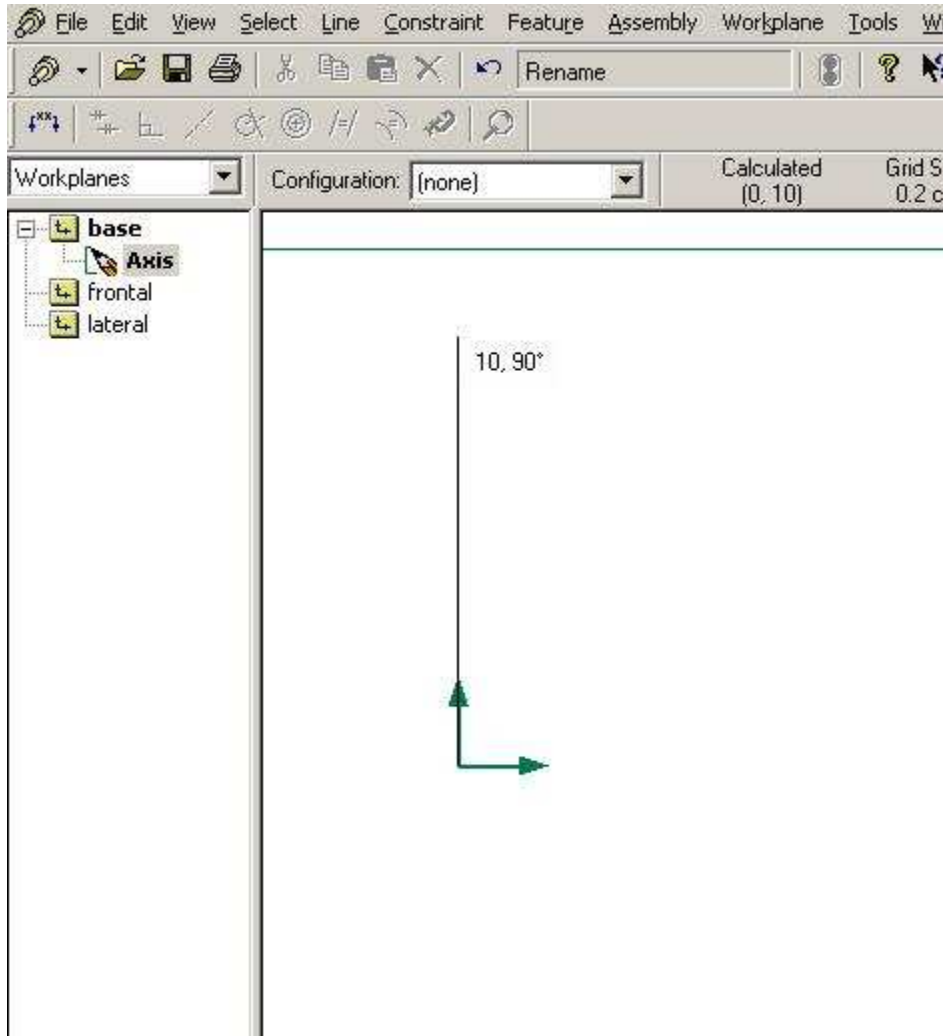


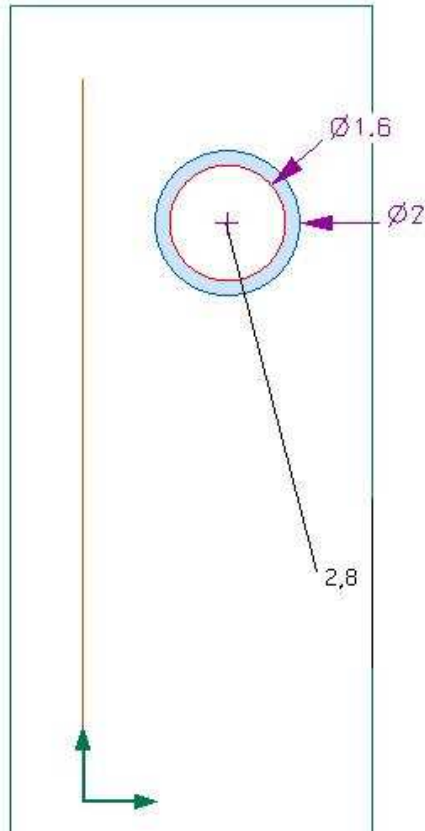
Sweep along a Helix

1. Set **Units** to **Centimeters**
2. Create a **New Design**. Save the new design as “**slideINL811**” in your “**bottle**” folder.
3. Rename the “**Initial**” sketch on the **Base Workplane** to “**Axis**”.
4. **Shift-W** to view onto workplane. Drag out a **10 CM** vertical line.

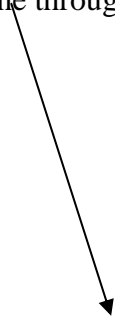


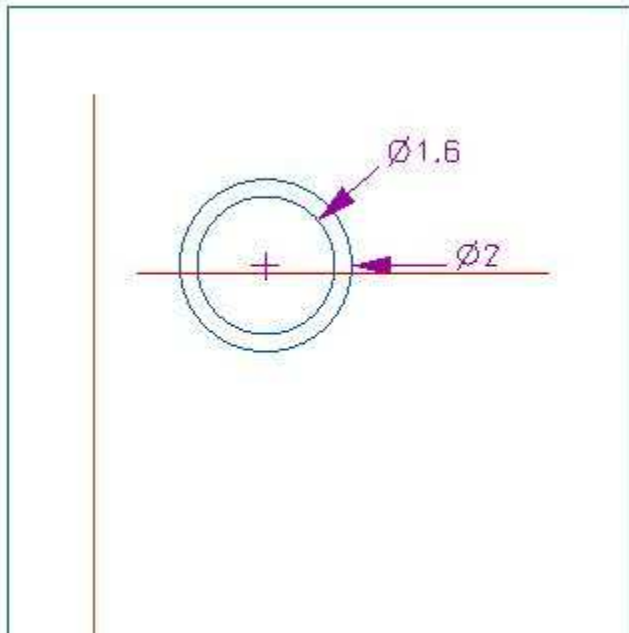
5. **Right Click** on the **Base** workplane, New Sketch. Name the sketch “**slide_profile**”. **BE SURE “slide_profile” is ACTIVE!!**

6. Drag out **2 concentric circles** starting at '**2, 8**'. The outside circle should be **2 CM**, and the inside circle should be **1.6 CM**.

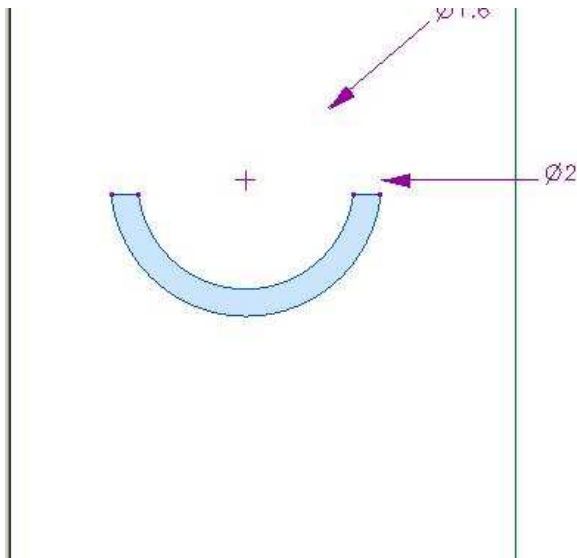


7. Drag a line through the two circles as is done below.

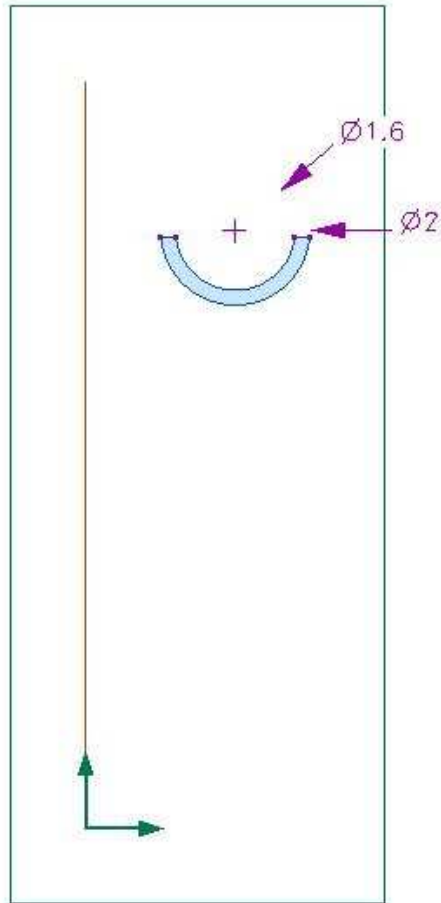




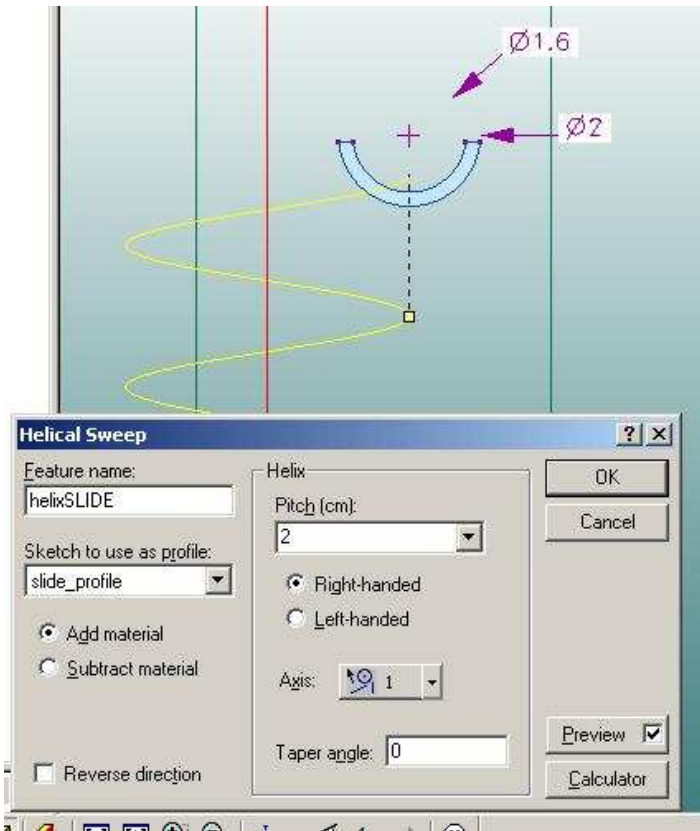
8. Snip away line segments so that you have a **valid sketch** like the one below.
Don't worry if your dimensions are missing or they don't look like the ones here.



9. **Shift - A** to **Autoscale** your design. It should look like the one below.

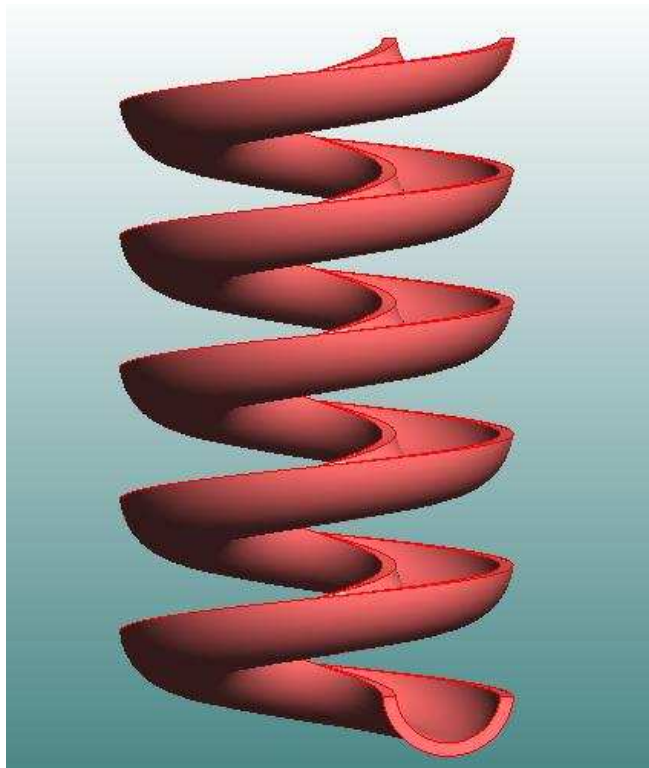


10. Go to **Features >Sweep Profile >Along Helix**. The **Helical Sweep** box will pop up. Fill it out like the one below. *Don't forget to name the feature "helixSLIDE"*.



**** Notice the yellow line preview.**

11. Your “Slide” should look like the one below:



11. Experiment with your “Sweep” by *Redefining the Sweep*. Go to the **Browser window**, click on **Features**, and then right click on “**helixSLIDE**”. Click on **Redefine**, then change the pitch.
12. Why does the **helixSLIDE** feature work with some pitches, and doesn’t work with others?