**Development Document**

Mai Yang Xiong, Jun Cai, Mengzhe Wang, Jon Leonardo Rodriguez

A list of development documents (classroom instruction/training)

1. **Facilitator Guide:** The guide provides instructions and list of supplies/materials to assist the instructor during the lesson. See Appendix A in Appendices Folder.

2. **Handout:** The Handout contains explanation and examples for students to take notes on. See Appendix B in Appendices Folder.

3. **Handout with Solution:** It is the Handout with solutions and the instructor can use it to provide immediate feedback to students. See Appendix C in Appendices Folder.

4. **Visual Aids:** Pre-sliced Loaf of Bread or any other objects that can be sliced to show students that a cross section is simply a slice of a solid.

5. **3-D models:** The models serves as a visual aid to assist student in visualizing a solid with cross section, placed on the coordinate plane.

<http://teachingcalculus.com/2014/11/13/visualizing-solid-figures-1/>

6. **Online dynamic Mathematics Software (Geogebra):** When the functions used for generating the base of the solid are complex to build by hand, the software is great for generating the 3-D models to help students visualize the solid and the known cross section.

<https://www.geogebra.org/material/simple/id/1200885>

7. **Ticket-Out the Door:** The exit ticket is used for checking student understanding based on the presentation of the materials in the lesson. See Appendix D in Appendices Folder.

8. **Ticket-Out the Door with Solutions:** The solution key provided for the instructor to check student answer. See Appendix E in Appendices Folder.

9. **3-Point Rubric:** The rubric is to help guide the instructor in assigning a score for the Ticket-Out the Door assessment. See Appendix F in Appendices Folder.

10. **Student Electronic Evaluation form:** The student electronic evaluation form is to give the instructor feedback about the lesson.

<http://goo.gl/forms/72S9zWIhkA>