

Triangle Inequality Evaluation

Due Friday, May 20, 2016 by 11:59 PM

The goals of this assignment are for you to analyze and evaluate the four technological tools you use during class and to determine which tool you would select to use with eighth-grade students.

Link to Tool 1: <http://geogebracentral.blogspot.com/2010/09/triangle-inequality.html>

Link to Tool 2: http://www.geogebra.org/en/upload/files/english/dtravis/triangle_inequality.html

Link to Tool 3: http://highaimsggb.pbworks.com/f/Triangle_Inequalities_Garrison.html

Link to Tool 4: http://teachers.henrico.k12.va.us/math/IGO/03TrianglesPolygons/3_3.html

In this assignment you will:

1. Identify the criteria you will use to evaluate the four tools. Be sure to consider Mathematical, Pedagogical and Cognitive Fidelity.

Mathematical Fidelity

- How accurately does the applet represent the mathematics?
- How well do the mathematical objects represent the underlying mathematical ideas? Are all cases possible?
- Could a student develop a misconception about the mathematics?

Pedagogical Fidelity

- How well does the applet allow students to “do” mathematics?
- How does the applet’s technological features limit their thinking?
- Are there features that distract students from learning?

Cognitive Fidelity

- How well does the applet reflect students’ cognitive actions?
- How well does it allow a teacher to see how students are thinking?

2. Analyze and evaluate each of the tools using your criteria. In your analysis of each tool, be sure to include a description of the features of the tool that you think are beneficial and those you think are drawbacks.
3. Provide a comparison of the four tools. In your comparison, you should examine and discuss the features of the tools that you feel are particularly important. State the tool that you would select to use to teach this topic to eighth grade students and provide a rationale for your selection.

One member of your group will submit your evaluation as:

EMAT_4700_May16_Triangle_Inequal_Eval_YOURLASTNAMES.docx (or .doc)
on eLearning Commons by **11:59 PM on Friday, May 20, 2016**.

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Section	Points Possible	Points/Comments
Criteria are clearly stated.	2	
Analysis and evaluation of each tool is completed according to the stated criteria. All claims are justified.	Tool 1	2
	Tool 2	2
	Tool 3	2
	Tool 4	2
Comparison considers all tools, the important features of the tool and the criteria used to evaluate the tool. The rationale for the selection of a particular tool is well justified.	4	
Paper is well organized and clearly written such that the flow of ideas is logical. The paper is written in a professional manner with few errors (grammar, spelling, sentence-structure).	1	
Total	15	