

# Math 1513 - College Algebra

## Written Assignment 7 - Due 2019.03.03

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Directions: Please answer the following question in complete sentences and show ALL work. Be sure to label all geometric objects in any illustrations. I will accept an answer in a scanned image format, as a pdf, or sent from your awesome picture phone. Do NOT send a Microsoft Word document, and be sure to submit your work through BlackBoard.

Problem: Use the power property of logarithms to compare the numbers  $800^{801}$  and  $801^{800}$ . Which is larger? Similarly, of the two numbers  $\frac{1}{999^{1000}}$  and  $\frac{1}{1000^{999}}$ , which is smaller?