

# Math 1513 - College Algebra

## Written Assignment 3 - Due 2017.01.29

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Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations (if any). I will accept an answer in a scanned image format, as a pdf, or as a picture taken and sent from your awesome smart phone.

Question: Find *all* values of  $b$  such that the following inequality has *no* solution, and do so *without* solving the equation:

$$\sqrt{2x+b} + \sqrt{3x-4} > 1.$$