

# Math 1513 - College Algebra

## Written Assignment 5 - Due 2019.09.29

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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.

For what value of  $a$  will five of the six real roots of  $6x^6 + 7x^5 - 43x^4 - 15x^3 + 49x^2 + ax - 12$  be shared by the polynomial  $2x^5 + x^4 - 15x^3 + 5x^2 + 13x - 6$ ?