

# Math 1513 - College Algebra

## Written Assignment 6 - Due 2015.07.12

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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.

For what value of  $a$  will four of the five real roots of  $2x^5 - 9x^4 - 13x^3 + 39x^2 + 11x - a$  be shared by the polynomial  $x^4 - 3x^3 - 11x^2 + 3x + 10$ ?