

# Math 1513 - College Algebra

## Written Assignment 11 - Due 2018.04.08

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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.

Consider the function  $f(x) = -3x + 5$ . Compute the inverse function,  $f^{-1}(x)$ , to  $f(x)$  and verify that  $(f \circ f^{-1})(x) = (f^{-1} \circ f)(x) = x$ . Furthermore, sketch both  $f(x)$  and its inverse on the same graph.