

# Math 1513 - College Algebra

## Written Assignment 12 - Due 2018.04.15

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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.

Sketch the graph of a *single* function which satisfies *all* of the following:

- (a) the domain is  $(-4, 0) \cup [2, 4)$ .
- (b) the range is  $(-3, 0) \cup (0, 2]$ .
- (c) the function is increasing on  $(-4, 0)$ .
- (d) the function is decreasing on  $[2, 4)$ .
- (e) the function is invertible.