

Math 2143 - Brief Calculus with Applications

Written Assignment 5 - Due 2016.07.10

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: Consider the four functions

$$f_1(x) = 2x + 3, \quad f_2(x) = 3x - 5, \quad f_3(x) = -3x + 1, \quad f_4(x) = -4x + 5$$

Plot all 4 of these functions on the same graph, and compute the area of the *bounded* region formed by the intersection of these 4 lines.