

Math 1513 - College Algebra

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.

Find a linear function $h(x)$ that will make the piecewise function defined below continuous for all real numbers. Be sure to include the domain for $h(x)$.

$$f(x) = \begin{cases} x^2, & x < 1 \\ h(x), & ?? \\ 2x + 3, & x > 3 \end{cases}$$