

Math 1513 - College Algebra

Written Assignment 2 - Due 2019.09.08

Directions: Please answer the following question in complete sentences and show ALL work. Be sure to label all geometric objects in any illustrations. I will accept an answer in a scanned image format, as a pdf, or sent from your awesome picture phone. Do NOT send a Microsoft Word document, and be sure to submit your work through BlackBoard.

Question: The absolute value of a complex number $z = a + bi$, denoted $|z|$, is given by the formula

$$|z| = \sqrt{a^2 + b^2}$$

Find four distinct complex numbers (which are neither purely imaginary nor purely real) such that each has an absolute value of 3.