

Math 1513 - College Algebra

Written Assignment 14 - Due 2016.11.20

Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations. I will accept an answer in a scanned image format, in a Word document or as a pdf.

Problem: Consider the following system of inequalities:

$$\begin{cases} x^2 + y^2 < 1, \\ x + y \leq 1, \\ x - y \leq 1, \\ -x + y \leq 1, \\ -x - y \leq 1 \end{cases}$$

Solve the system, graph the region in the xy -plane corresponding to the solution.