

Math 1513 - College Algebra

Written Assignment 12 - Due 2011.04.02

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.

For each of the following inequalities, state the intervals which satisfy them. (Hint: Think of the graph first.)

1. $-(2x + 1)(3x + 2)(4x - 5)(2x + 5) < 0$

2. $-x^2(x + 1)^2(2x - 1)^2 > 0$

3. $x(2x + 1)(3x - 7)^3 \leq 0$

4. $-(x + 1)(2x + 1)(3x - 1) \geq 0$