

# Math 1513 - College Algebra

## Written Assignment 2 - Due 2012.01.21

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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: The following terms  $\sqrt{3x} + \sqrt{9x} + \sqrt{27x} + \dots$  form a pattern that continues until the sixth is found.

1. Compute the sum of all six terms.
2. By investigating the pattern further, develop a system that will enable you to find the sum of 12 such terms without actually writing them all out.