

Math 1513 - College Algebra

Written Assignment 16 - Due 2011.05.07

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.

You drop a rubber ball from a height of 6 feet above the floor. After each bounce, the ball reaches a maximum height of $\frac{2}{3}$ the previous maximum height. Neglecting friction and all those other pesky forces, calculate the total possible vertical distance traveled by this ball as it bounces up and down.