

Math 1513 - College Algebra

Written Assignment 4 - Due 2014.09.14

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, as a pdf, or sent from your awesome picture phone.

Problem: The surface area SA of a cylinder is given by the formula $SA = 2\pi r^2 + 2\pi rh$, where h is the height of the cylinder and r is the radius of the base. Find the height of a cylinder that has a radius of 12 cm and a surface area of 1400 cm².