

Math 1513 - College Algebra

Written Assignment 5 - Due 2018.02.18

Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations (if any). I will accept an answer in a scanned image format, as a pdf, or as a picture taken and sent from your awesome smart phone.

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 8 cm and a surface area of 1100 cm^2 .