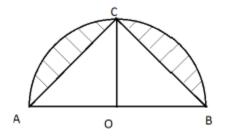
## Answer on Question #29047 – Math – Geometry

## Question

A triangle is placed in a semicircle with a radius of 7mm. Find the area of the shaded region. Use the value 3.14 for  $\pi$ ; and do not round your answer. Be sure to include the correct unit in your answer.

## Solution



$$S = S_{semicircle} - S_{triangle}$$
$$S_{semicircle} = \frac{1}{2}\pi r^2 = \frac{1}{2} * 3.14 * 49 = 76.93$$
$$S_{triangle} = \frac{1}{2}CO * AB = \frac{1}{2}7 * 14 = 49$$

S = 76.93 - 49 = 27.93

**Answer:** 27.93 mm<sup>2</sup>.