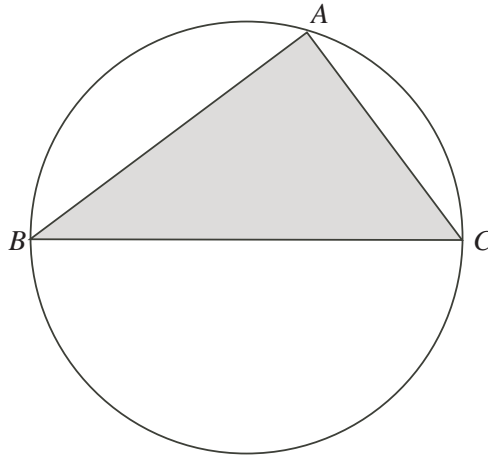




## Problem of the Week Grade 9 and 10

### An Unshady Area



$\triangle ABC$  is inscribed in a circle with vertices  $B$  and  $C$  located at the endpoints of a diameter and the third vertex,  $A$ , on the circumference of the circle so that  $AB = 16$  cm,  $AC = 12$  cm, and  $BC = 20$  cm.

Determine the area of the unshaded region of the circle. Express the area as an exact answer involving  $\pi$ . Then state the area correct to the nearest hundredth  $\text{cm}^2$ .

