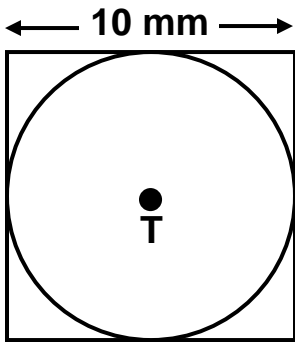


## TOPIC 13-4: CIRCUMFERENCE & AREA OF CIRCLES & COMPOSITES

<p><u>Circumference</u></p> <p>The length around a circle</p> <p><math>C = 2\pi r</math> or <math>\pi d</math></p>	<p><u>Area</u></p> <p><math>A = \pi r^2</math></p>
--	--

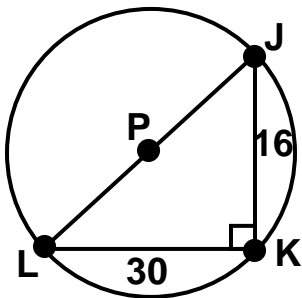
**EXAMPLE 1:** Find the circumference and area of Circle T shown below.



$C =$  \_\_\_\_\_

$A =$  \_\_\_\_\_

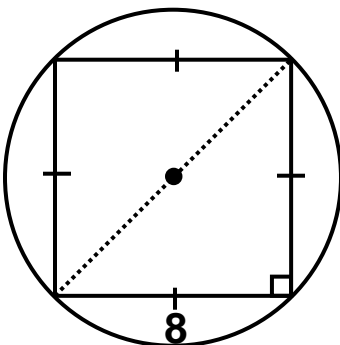
**EXAMPLE 2:** Find the circumference and area of Circle P below.



$C =$  \_\_\_\_\_

$A =$  \_\_\_\_\_

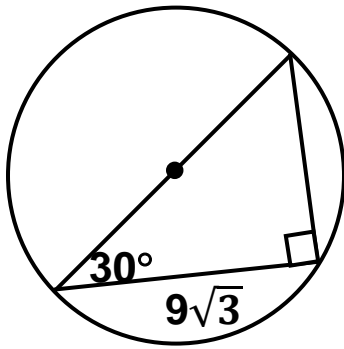
**EXAMPLE 3:** Find the circumference and area of the circle below.



$C =$  \_\_\_\_\_

$A =$  \_\_\_\_\_

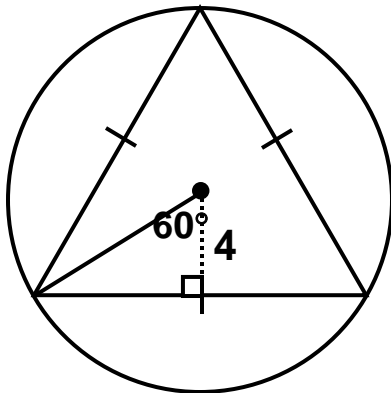
**EXAMPLE 4:** Find the circumference and area of the circle below.



C = \_\_\_\_\_

A = \_\_\_\_\_

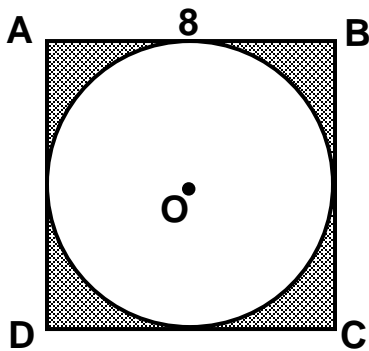
**EXAMPLE 5:** Find the circumference and area of the circle below.



C = \_\_\_\_\_

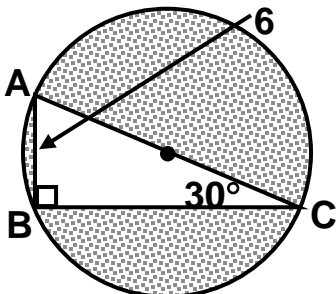
A = \_\_\_\_\_

**EXAMPLE 6:** Find the area of the shaded region to the nearest tenth.



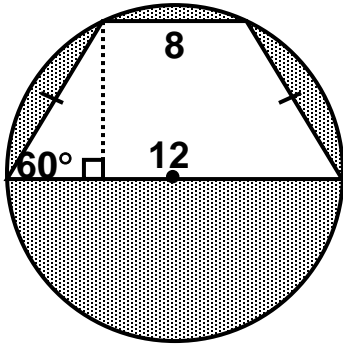
A = \_\_\_\_\_

**EXAMPLE 7:** Find the area of the shaded region to the nearest hundredth.



A = \_\_\_\_\_

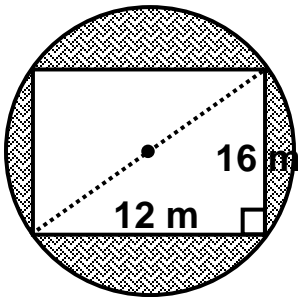
**EXAMPLE 8:** Find the area of the shaded region below.



A = \_\_\_\_\_

---

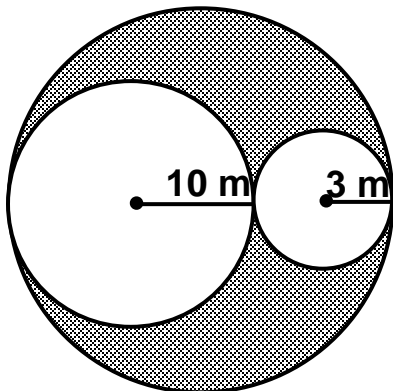
**EXAMPLE 9:** Find the area of the shaded region below.



A = \_\_\_\_\_

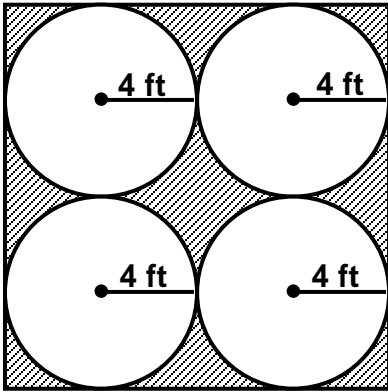
---

**EXAMPLE 10:** Find the area of the shaded region below. Round your answer to the nearest thousandth.



A = \_\_\_\_\_

**EXAMPLE 12:** Find the area of the shaded region below.



A = \_\_\_\_\_

---

**EXAMPLE 13:** The radius of a circle is 3 inches. Describe the effect on the circumference and the area if the radius is multiplied by 3.