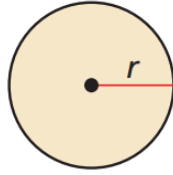


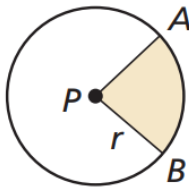
Core Concept

The **area** of a circle is



Formula:

$$A = \underline{\hspace{2cm}}$$

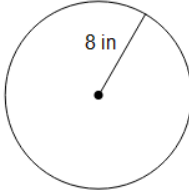
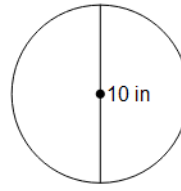
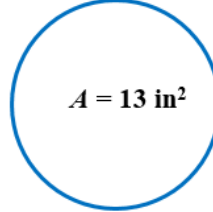
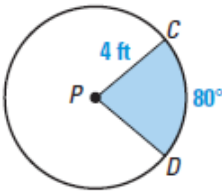
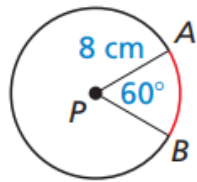


To find the **area of a sector**, find a portion of the area of the whole circle.

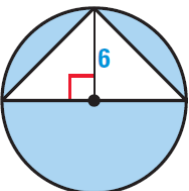
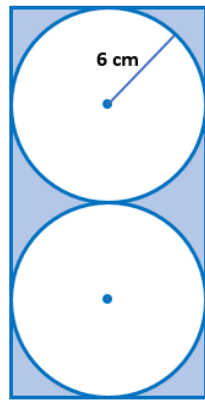
Formula:

$$\text{Area of sector } APB = \frac{m\widehat{AB}}{360^\circ} \left(\hspace{2cm} \right)$$

Give the simplified form of the exact answer in terms of π and the decimal approximation. (to the nearest hundredth)

<p>1) Find the area.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>	<p>2) Find the area.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>	<p>3) Find the radius.</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $r =$ $r \approx$ </div>
<p>4) Find the area of the sector formed by $\angle CPD$</p>  $CPD = \frac{\hspace{1cm}}{360^\circ} \left(\hspace{1cm} \right)$ <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>	<p>5) Find the area of the sector APB</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>	

Find the shaded area. Sketch a “plan.” Show an expression with formulas. Substitute and simplify.

<p>6)</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>	<p>7)</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> $A =$ $A \approx$ </div>
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