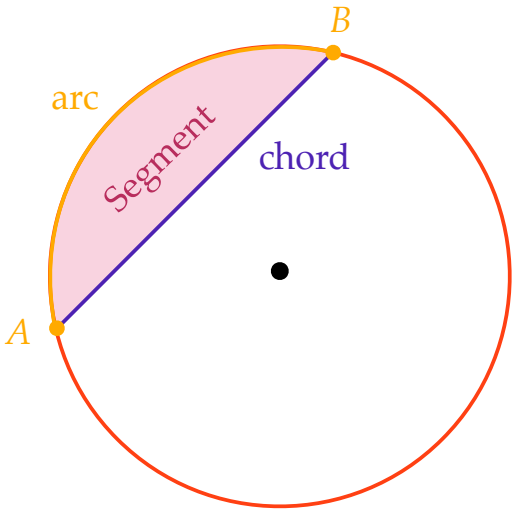
Area of Segments of Circles

Name _____

Date _____ Period _____

Segment of a Circle

A segment of a circle is the area bounded by an arc and the chord joining the arc's endpoints.

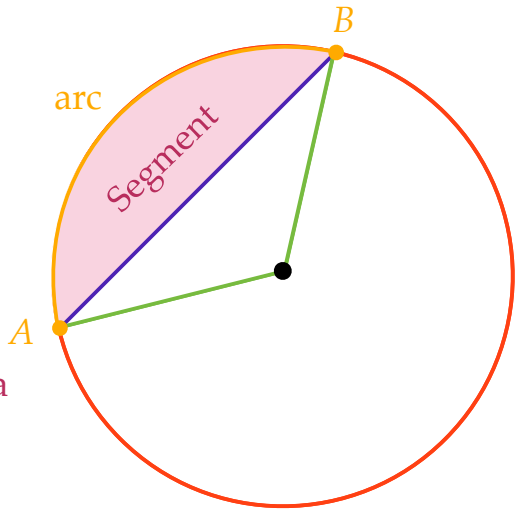


Segment of a Circle

A segment of a circle is the area bounded by an arc and the chord joining the arc's endpoints.

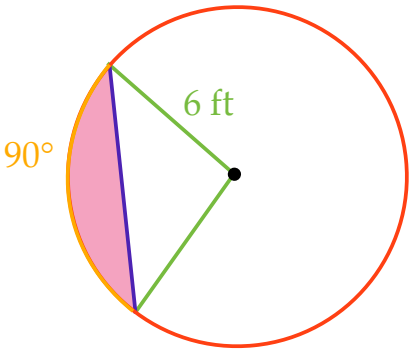
Area of a Segment of a Circle

Sector Area – Triangle Area = Segment Area



Find the Area of the Segments of the following Circles

$$A = \frac{m\overset{\frown}{AB}}{360^\circ} \cdot \pi r^2 - \frac{1}{2}(r^2 \cdot \sin m\overset{\frown}{AB})$$



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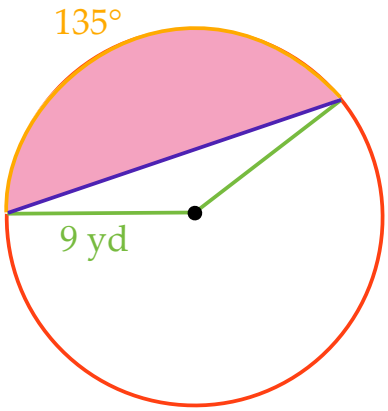
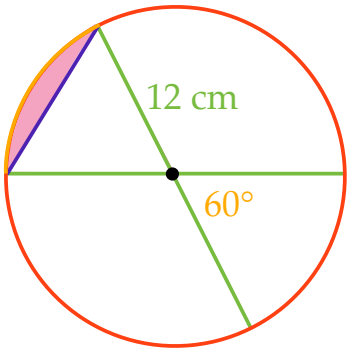


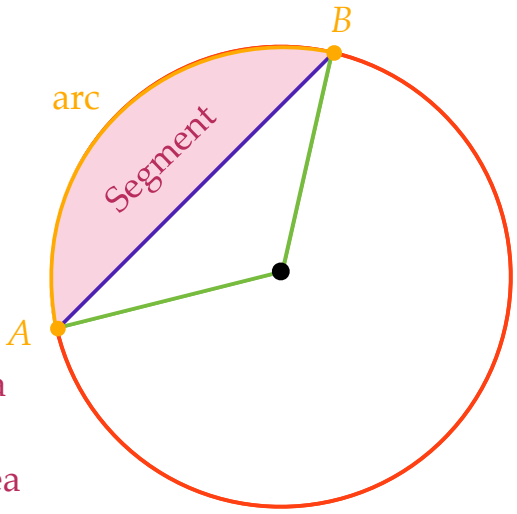
Find the Area of the Segments of the following Circles

$$A = \frac{m\overset{\frown}{AB}}{360^o} \cdot \pi r^2 - \frac{1}{2}(r^2 \cdot \sin m\overset{\frown}{AB})$$



Segment of a Circle

A segment of a circle is the area bounded by an arc and the chord joining the arc's endpoints.



Area of a Segment of a Circle

Sector Area – Triangle Area = Segment Area

$$\frac{m\overset{\frown}{AB}}{360^o} \cdot \pi r^2 - \frac{1}{2}(r^2 \cdot \sin m\overset{\frown}{AB}) = \text{Segment Area}$$