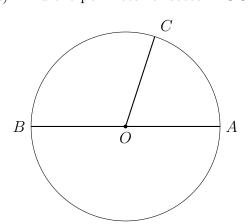
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11.1 Classwork: Circle

- 1. Find the area of a semi-circle with radius of 7 centimeters.
- 2. Do Now: Circle O has a diameter AB = 10, as shown. Given $m \angle AOC = 72^{\circ}$.
 - (a) Find the circumference of circle O.
- (d) Find the perimeter of sector AOC.

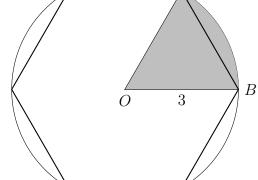
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- (b) Find the area of circle O.
- (c) Find the area of the sector AOC.



A

- 3. Given circle O with radius OB = 3 cm.
 - (a) Find the circumference of circle O.
 - (b) Find the area of the circle.

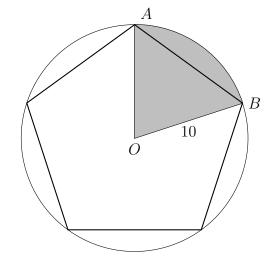


(c) A hexagon is inscribed in the circle, with A and B two of its vertices.

Find the area of the sector AOB.

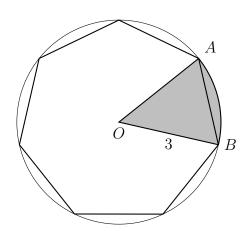
- 4. A pentagon is inscribed in circle O, as shown below. The circle has radius r = 10.
 - (a) Find the area of the sector AOB.

(b) Find the perimeter of the sector AOB.



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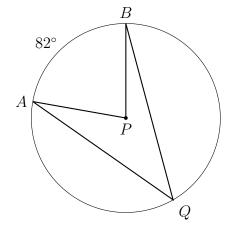
- 5. A regular heptagon (7 sides) is inscribed in circle O, having a radius r=3.
 - (a) Find the area of the sector AOB.
 - (b) Find the perimeter of sector AOB.
 - (c) Find the measure of central angle $\angle AOB$



- 6. Given the circle with center P with central angle $\angle APB$ and inscribed angle $\angle AQB$. The intercepted arc has a measure $\widehat{mAB} = 82^{\circ}$.
 - (a) Find $m \angle APB =$
 - (b) Find $m \angle AQB =$

Circle True or False:

- i. T F \overline{AP} is a radius
- ii. T F \overline{AQ} is a diameter
- iii. T F $\angle AQB$ is an inscribed angle



- 7. A regular hexagon (6 sides) is inscribed in circle O, having a radius r=3.
 - (a) Find the area of the sector AOB.
- (c) Find the measure of central angle $\angle AOB$
- (b) Find the perimeter of sector AOB.

