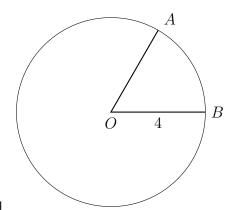
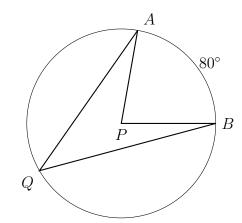
9.6 Homework: Circle angles

- 1. Write down the formula for the circumference of a circle given the radius.
- 2. Write down the formula for the area of a circle.
- 3. Given circle O with radius OB = 4.
 - (a) Find the circumference of circle O.
 - (b) Find its area.

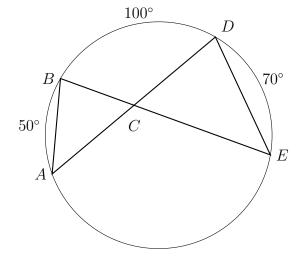


- (c) Given that $m\angle AOB = 60^{\circ}$, find \widehat{mAB} .
- (d) Find the area of the sector AOB.
- 4. Given circle P with $\widehat{mAB} = 80^{\circ}$.
 - (a) Write down the $m \angle APB$.
 - (b) Find the $m \angle AQB$.



- 5. Given circle O with chords \overline{AD} and \overline{BE} intersecting at C, as shown in the diagram. Given $\widehat{mAB} = 50^{\circ}$, $\widehat{mBD} = 100^{\circ}$, and $\widehat{mDE} = 70^{\circ}$.
 - (a) Find the $m \angle BAD$.

(b) Find the $m \angle ACB$.



- 6. The secants \overline{ABC} and \overline{ADE} intersect the circle O, as shown in the diagram. Given $\widehat{mBD}=30^\circ$ and $\widehat{mCE}=140^\circ$.
 - (a) Find the $m \angle CDE$.

(b) Find the $m \angle BCD$.

(c) Find the $m \angle A$.

