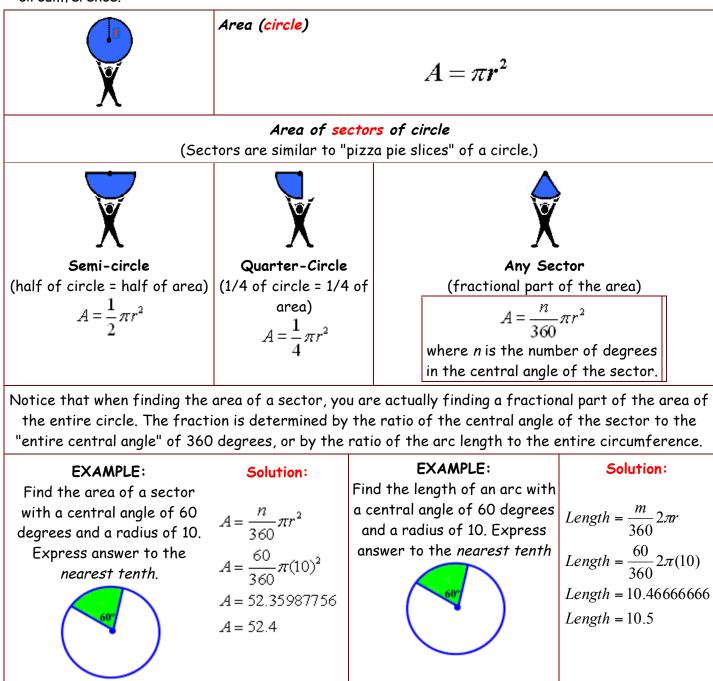
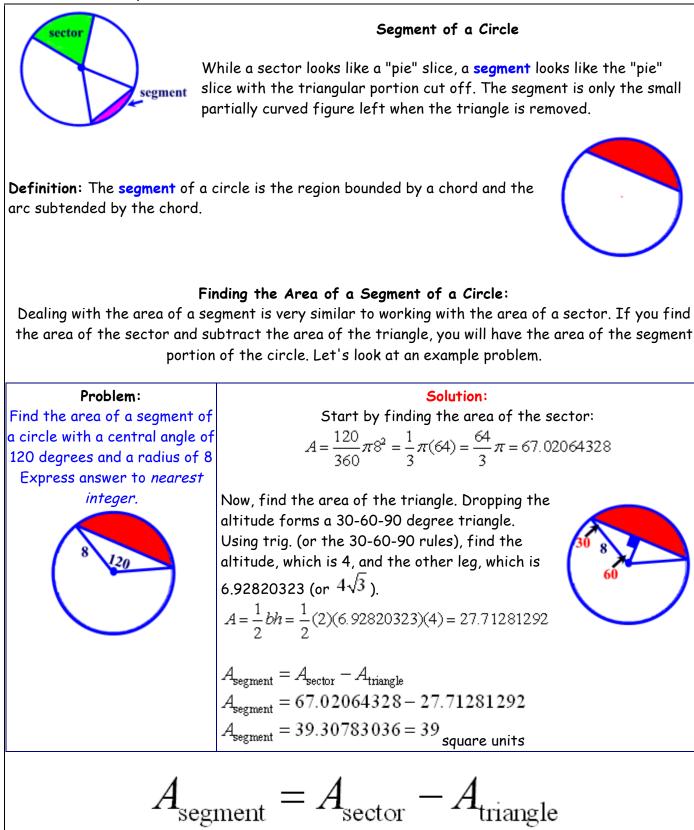
Honors Geometry		14.6 Notes
Name:	Date:	Period:

## Sectors and Arcs

If a sector is a certain fraction of a circle, then its area is the same fraction of the circle's area. If an arc is a certain fraction of a circle, then its length is the same fraction of the circle's circumference.



## Honors Geometry



## Honors Geometry

## 14.6 Notes

In circle O with radius 12, the m $\angle$ COD = 30°. Find the length of arc CD and the area of sector COD.

Arc Length = \_\_\_\_\_ Area of Sector = \_\_\_\_\_

In circle O with diameter 20,  $m \angle AOB = 72^{\circ}$ . Find the length of arc AB and the area of sector AOB.

Arc Length = \_\_\_\_\_

Area of Sector = \_\_\_\_\_

In circle O with diameter 30,  $m \angle AOB = 108^{\circ}$ . Find the length of arc AB and the area of sector AOB.

Area of Sector = \_\_\_\_\_

Find the area of the shaded region.

0 - 10 - 60°

