

## C12 - 4.9 - Arc Length, Central Angle HW

Don't forget to draw and label the circle!

What is the arc length of a circle with:

A radius of 1 and an angle of  $45^\circ$ ?

A radius of 5 and an angle of  $60^\circ$ ?

A radius of 4 and an angle of  $180^\circ$ ?

What is the arc length of a circle with:

A radius of 1 and an angle of  $\frac{\pi}{4}$ ?

A radius of 5 and an angle of  $\pi$ ?

A radius of 4 and an angle of  $\frac{3\pi}{2}$ ?

What is the central in radians angle with:

A radius of 1 and an arc length of 1?

A radius of 3 and an arc length of 2?

A radius of 5 and an arc length of 12?

## C12 - 4.9 - Radius, Sector Area HW

Don't forget to draw and label the circle!

What is the radius of a circle with:

An arc length of 3 and  
a central angle of  $\frac{\pi}{3}$ ?

An arc length of 2 and  
a central angle of  $\frac{\pi}{4}$ ?

An arc length of 5 and  
a central angle of  $\pi$ ?

What is the sector area of a circle with:

A radius of 1 and an arc  
length of 1?

A radius of 3 and an arc  
length of 2?

A radius of 5 and an arc  
length of 12?