

Advanced Geometry  
"Fractions" with Circles

Name: \_\_\_\_\_

Arc: Part of a circle. It can be measured in two ways:

1.)

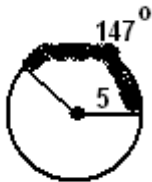
2.)



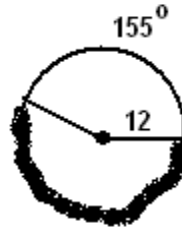
**Calculating Arc Length**

Arc Length =

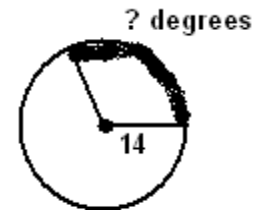
[EX 1] Arc Length = ?



[EX 2] Arc Length = ?

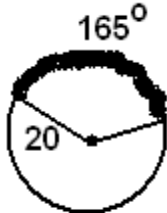


[EX 3] Degree measure of Arc = ?

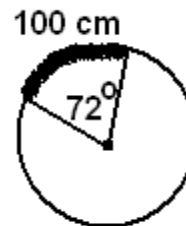


Arc Length = 30 units

[EX 4] Arc Length = ?

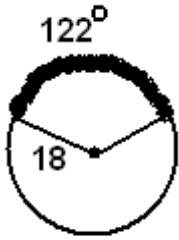


[EX 5] Radius of Circle = ?



Find what is requested in each problem!!

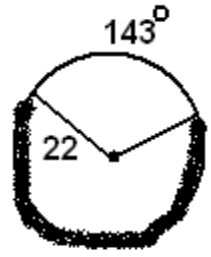
[1] Arc Length



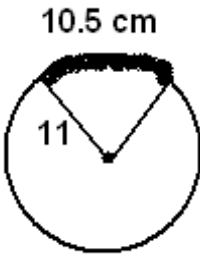
[2] Arc Length



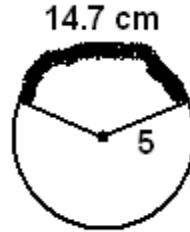
[3] Arc Length



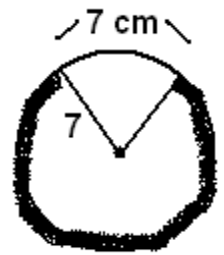
[4] Degree of Arc



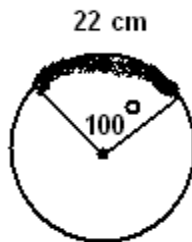
[5] Degree of Arc



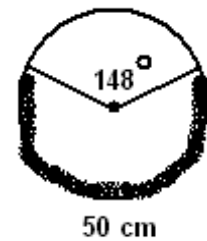
[6] Degree of Arc



[7] Radius

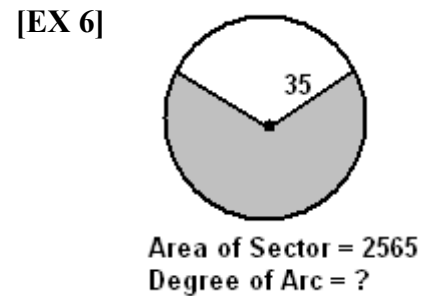
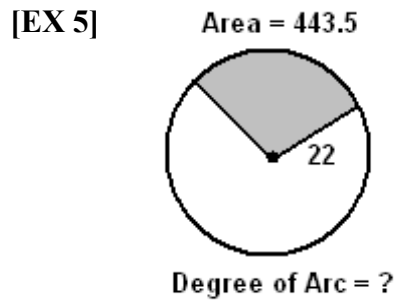
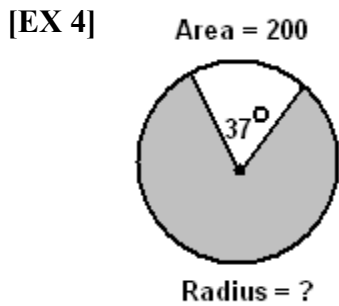
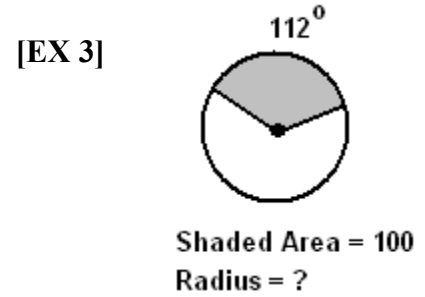
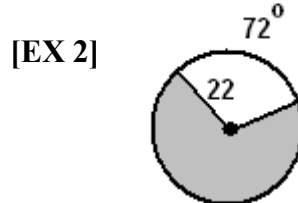
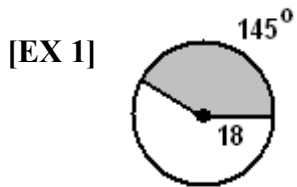
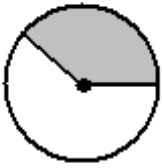


[8] Radius

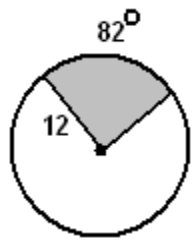


Area of a Sector

Area =

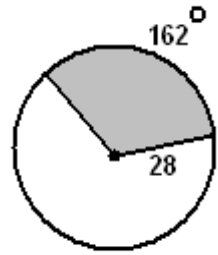


[1]



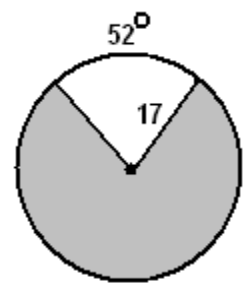
Area of Sector = ?

[2]



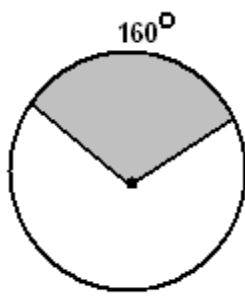
Area of Sector = ?

[3]



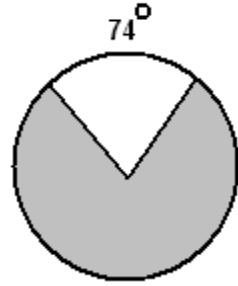
Area of Sector = ?

[4]



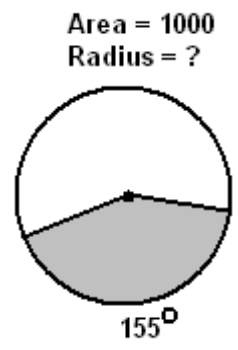
Area = 200  
Radius = ?

[5]



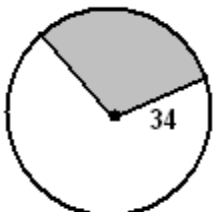
Area = 500  
Radius = ?

[6]



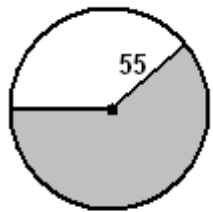
Area = 1000  
Radius = ?

[7]



Area = 970  
Degree of Arc = ?

[8]



Area = 6000  
Degree of Arc = ?