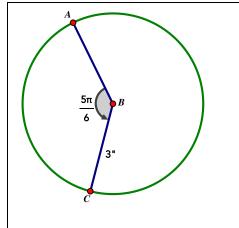
1. Use the circle below



a.) Find the area of sector ABC.

b.) Compute the length of AC (arc).

- 2. A circle has a radius of 8 and a central angle of $3\pi/4$.
 - a.) Find the length of the arc created by the angle.
 - b.) Find the area of the sector determined by the angle.

- 3. If a sector of a circle with central angle $\pi/6$ has an area of 3π square meters, what is the radius of the circle?
- 4. The windshield wiper has an 18 inch blade mounted on a 10 inch arm. If the wiper turns through an angle of 110° , what area is swept clean?

5.	Find the equation of the line containing (0,4) and	d is incl	ined 40° to th	e positive x-axis.
6.	If the point (1,0) is rotated about (0,0), in which a.) -30° b.) $2\pi/3$	quadra	nt will the ima	age point lie? 539°
7.	A fishing boat sails at a steady speed of 13 mph of set sail at 3:00 am, describe its location east and			
8.	A 30 foot ladder used by firefighters is safe only angle or less to the ground. What is the maximu			
9.	In which quadrant is a.) sinx>0 and cosx <0	b.)	tanx>0 and s	inx <0
10.	Find three angles, in radians and/or degrees, wha.) sine is equal to 1	ose b.)	cosine is equ	al to –1