Arc Length and Degrees to Radians

<u>Degrees to Radians</u>		Radians to degrees
Multiply the degree by $\pi/180$		Multiply radian by $180/\pi$
1.What is 150° in radians	2. What is 255° in radians	3. What is 120° in radians
4. What is $4\pi/3$ in degrees	5. What is $2\pi/3$ in degrees	6. What is $11\pi/6$ in degrees
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Arc Length Formula: $S = r \times \theta$		
*Theta HAS to be in RADIANS		
1. If a circle has a radius of 16.40cm find the arc length of the two degrees below.		
A) 5π/4	B) 175°	C) 3π/2

Area of a Sector

Formula: $A = \frac{1}{2} r^2 \theta$

* Theta HAS to be in RADIANS

If a circle has a radius of 25.60inch, what is the Area of the sector if is θ =20°?

If a circle has a radius of 34.53cm, what is the area of the sector if is θ =45°?