1. Find the length of the arc if the radius is $\mathbf{8} \mathbf{~ c m}$ and the angle 50 degrees.
2. Find the area of the sector if the radius is 14 " and the angle is 2 radians.
3. If the radius of a wheel is $12^{\prime \prime}$ and is doing 125 revolutions per minute, how fast is that in miles per hour?
