## Chapter 4 Trigonometric Functions

4.1 Degree \& Radian Measure:

Units of Measurement:
Degrees - A planar unit of angular measure equal in magnitude to $1 / 360$ of a complete revolution.
Radian -- One radian is the angle subtended at the center of a circle by an arc of length equal to the radius of the circle.


CONVERTING Degrees into Radians:



Formula: Degrees * $\frac{\pi}{180^{6}}=$
Radians

Formula: Radians * $\frac{180}{\pi}=$
Degrees

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Examples:


Formula: Arc Length $=$ Radius * Angle (IN RADIANS!) $a=r \theta$


A heavy mass is attached to a string that is 15 cm in length. It sweeps out an arc of 5 cm . What is the measure of the angle swept out in radians?


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