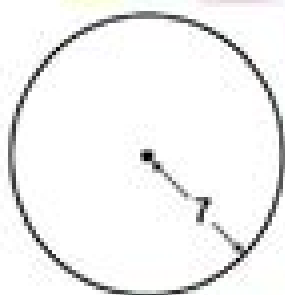# Arcs and Sectors Notes

Circumference
Distance around outside of circle

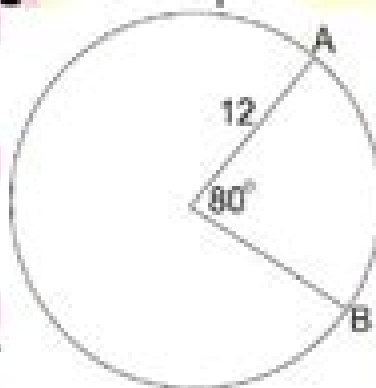$C = 2\pi r$ $C = \pi d$

Area
Space inside of the circle

$A = \pi r^2$

Arc Length
The length of a portion of the outside of the circle

$$Arc = \frac{\theta}{360}(2\pi r)$$

Sector Area
The area of a portion of the inside of the circle

$$Sector = \frac{\theta}{360}(\pi r^2)$$

Applications Of Arc Length And Sectors Geometry

Francis Joseph Grund

Applications Of Arc Length And Sectors Geometry:

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definitional construction of the hyperreal numbers of Nonstandard Analysis NSA The hyperreals form a proper field extension of the reals that contains new types of numbers including infinitesimals and infinite numbers By combining notions from NSA and geometry theorem proving we propose an infinitesimal geometry in which quantities can be infinitely small This approach then reveals new properties of the geometry that only hold because infinitesimal elements are allowed We also mechanize some analytic geometry and use it to verify the geometry theories of Isabelle We then report on the main application of this framework We discuss the formalization of several results from the Principia and give a detailed case study of one of its most important propositions the Propositio Kepleriana An anomaly is revealed in Newton s reasoning through our rigorous mechanization Finally we present the formalization of a portion of mathematical analysis using the nonstandard approach We mechanize both standard and nonstandard definitions of familiar concepts prove their equivalence and use nonstandard arguments to provide intuitive yet rigorous proofs of many of their properties

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