Fall 2011
Precalculus
Project B

This project includes 2 parts. A 10 min class presentation, using powerpoint or overhead which is worth 50 percent of your grade, and a written report which is worth 50 percent of your grade.

Show that the area of a regular n-sided polygon circumscribed about a circle of radius 1 is given by $A(n) = n \tan\left(\frac{180^\circ}{n}\right)$

1. Find $A(8), A(100), A(1000)$, and $A(10000)$.
2. What number does A seem to approach as n is getting larger and larger and close to infinity.