

1086-VP-1339 **Salvatore P Giunta*** (sgiunta@adelphi.edu), Dept. of Math and Comp. Sci., 211 Post Hall,
Adelphi University, Garden City, NY 11530. *Trigonometric applets using GeoGebra.*

We present an applet that demonstrates the six trigonometric functions that show how they are related to counterclockwise angles in the unit circle. We will also show how the applet yields values in the standard trigonometric table and show their relation to certain types of triangles. We then present a second applet, analogous to the first, based on the hyperbola that demonstrates the six hyperbolic trigonometric functions and how they are related to values on the hyperbola. By visually displaying these examples side by side, our students may develop a greater understanding of the geometric origins and relationships between these various trigonometric functions. (Received September 21, 2012)