Name: _____   Date: _____

Use a Computer Algebra System to find Reciprocal Trigonometric Ratios

A computer algebra system (CAS) such as the one found on the TI-Nspire™ CAS graphing calculator can display exact or approximate values of the reciprocal trigonometric ratios.

Tools
• TI-Nspire™
  CAS graphing calculator

1. Turn on the TI-Nspire™ CAS graphing calculator. Open a new calculator page.

2. Enter csc(60), and press enter.
Notice how the result is displayed.

3. Enter csc(60). Press ctrl, and then press enter.
Notice how the result is displayed.

4. Try several other reciprocal trigonometric ratios of special angles:
   a) sec 45º
   b) cot 30º
   c) csc 45º

5. Try angles in other quadrants, and compare the results to the entries on your summary sheet of exact trigonometric ratios.