

Use a calculator to find a decimal approximation for each value. Give as many digits as your calculator displays. In Exercises 86–89, simplify the expression before using the calculator. See Example 6.

74. $\tan 29^\circ 30'$

75. $\sin 38^\circ 42'$

76. $\cot 41^\circ 24'$

77. $\sec 13^\circ 15'$

78. $\csc 145^\circ 45'$

79. $\cot 183^\circ 48'$

80. $\cos 421^\circ 30'$

81. $\sec 312^\circ 12'$

82. $\tan(-80^\circ 6')$

83. $\sin(-317^\circ 36')$

84. $\cot(-512^\circ 20')$

85. $\cos(-15')$

86. $\frac{1}{\sec 14.8^\circ}$

87. $\frac{1}{\cot 23.4^\circ}$

88. $\frac{\sin 33^\circ}{\cos 33^\circ}$

89. $\frac{\cos 77^\circ}{\sin 77^\circ}$