Math 3   Name:_____

Unit 1.6 Finding Trigonometric Functions Values Using Calculator PRACTICE

Use a calculator to find a decimal approximation for each value. Give as many digits as your calculator displays.

1) $\sin 38° 42'$

2) $\cot 41° 24'$

3) $\sec 13° 15'$

4) $\csc 145° 45'$

5) $\cot 183° 48'$

6) $\cos 421° 30'$

7) $\sec 312° 12'$

8) $\tan -80° 6'$

9) $\sin -317° 36'$

10) $\cot -512° 20'$

11) $\cos -15'$

12) $\dfrac{1}{\sec 14.8°}$

13) $\dfrac{1}{\cot 23.4°}$

14) $\dfrac{\sin 33°}{\cos 33°}$

15) $\dfrac{\cos 77°}{\sin 77°}$

16) $\sin 35° \cos 55° + \cos 35° \sin 55°$

17) $\cos 100° \cos 80° - \sin 100° \sin 80°$

18) $\cos 75° 29' \cos 14° 31' - \sin 75° 29' \sin 14° 31'$

19) $\sin 28° 14' \cos 61° 46' + \cos 28° 14' \sin 61° 46'$

Find a value of θ in the interval $[0°, 90°]$ that satisfies each statement. Leave answers in decimal degrees.

20) $\sin \theta = 0.84802194$

21) $\tan \theta = 1.4739716$

22) $\tan \theta = 6.4358841$

23) $\sin \theta = 0.27843196$

24) $\sec \theta = 1.1606249$

25) $\cot \theta = 1.2575516$

26) $\csc \theta = 1.3861147$

27) $\sec \theta = 2.7496222$

Use a calculator to decide whether each statement is true of false.

28) $\cos 40° = 2 \cos 20°$

29) $\sin 10° + \sin 10° = \sin 20°$

30) $\cos 70° = 2 \cos^2 35° - 1$

31) $\sin 50° = 2 \sin 25° \cos 25°$