

## Trigonometric Functions (The Unit Circle) - Section 11

### Directions:

Write your answers in the space provided. Show your work. Use a calculator only when necessary. Round your answers to two decimal places.

### Problem 1:

1. Find the reference angle for  $135^\circ$ .
2. Find the reference angle for  $225^\circ$ .
3. Find the reference angle for  $315^\circ$ .
4. Find the reference angle for  $15^\circ$ .

### Problem 2:

Find the value of the function:  $\sin(135^\circ)$ ,  $\cos(135^\circ)$ ,  $\tan(135^\circ)$ ,  $\csc(135^\circ)$ ,  $\sec(135^\circ)$ ,  $\cot(135^\circ)$ .

### Problem 3:

Find the value of the function:  $\sin(225^\circ)$ ,  $\cos(225^\circ)$ ,  $\tan(225^\circ)$ ,  $\csc(225^\circ)$ ,  $\sec(225^\circ)$ ,  $\cot(225^\circ)$ .

### Problem 4:

Find the value of the function:  $\sin(315^\circ)$ ,  $\cos(315^\circ)$ ,  $\tan(315^\circ)$ ,  $\csc(315^\circ)$ ,  $\sec(315^\circ)$ ,  $\cot(315^\circ)$ .

### Problem 5:

Find the value of the function:  $\sin(15^\circ)$ ,  $\cos(15^\circ)$ ,  $\tan(15^\circ)$ ,  $\csc(15^\circ)$ ,  $\sec(15^\circ)$ ,  $\cot(15^\circ)$ .

### Problem 6:

Find the value of the function:  $\sin(15^\circ)$ ,  $\cos(15^\circ)$ ,  $\tan(15^\circ)$ ,  $\csc(15^\circ)$ ,  $\sec(15^\circ)$ ,  $\cot(15^\circ)$ .

### Problem 7:

Find the value of the function:  $\sin(15^\circ)$ ,  $\cos(15^\circ)$ ,  $\tan(15^\circ)$ ,  $\csc(15^\circ)$ ,  $\sec(15^\circ)$ ,  $\cot(15^\circ)$ .

### Problem 8:

Find the value of the function:  $\sin(15^\circ)$ ,  $\cos(15^\circ)$ ,  $\tan(15^\circ)$ ,  $\csc(15^\circ)$ ,  $\sec(15^\circ)$ ,  $\cot(15^\circ)$ .

### Problem 9: