Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Advanced Functions and Modeling Unit 8 Test Review**

**Part I: Degrees and Radians**



1. Convert to degrees, minutes, seconds.



2. Convert to degrees. Round to the nearest hundredth.



3. Convert to radians.



4. Convert to degrees.



**Part II: Coterminal Angles**



1. Find one positive and one negative coterminal angle for .



2. Find one positive and one negative coterminal angle for .



3. Find the coterminal angle between and for .



4. Find the coterminal angle between and for .



**Part III: Graphing**



1. Graph in standard position.

2. Graph in standard position.

3. Identify the angle measures below.

a. b.

**art IV: Exact Trig Values Use the unit circle to find the exact values.**



1. 2. 3.



4. 5. 6.



**Part V: Arc Length and Sector Area**

1. Find the arc length of a circle with radius length of 6 inches and central angle measure of .

2. Find the arc length of a circle with radius length of 10 centimeters and central angle measure of .

3. Find the sector area of a circle with radius length of 5 centimeters and .

4. Find the sector area of a circle with radius length of 5 centimeters and .

