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.

**Part 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 .