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

**Advanced Functions and Modeling Unit 8 Homework 1**

**Convert each degree measure into radians and each radian measure into degrees.**

1. $325°$ 2. $60°$ 3. $240°$ 4. $-\frac{4π}{3}$ 5. $\frac{23π}{12}$

6. $\frac{10π}{3}$ 7. $570°$ 8. $-315°$ 9. $\frac{π}{2}$ 10. $-180°$

**Convert the angle to a decimal degree and round to the nearest ten-thousandth.**

11. $20°47'$ 12. $142°4'$ 13. $73°39'45"$ 14. $207°49'26"$

15. $291°2'3"$ 16. $345°15'42"$ 17. $19°30'10"$ 18. $4°5'30"$

**Convert the angle to degrees, minutes, seconds.**

19. $116.9°$ 20. $130.45°$ 21. $46.3225°$ 22. $78.66°$

23. $29.38°$ 24. $350.875°$ 25. $121.6275°$ 26. $275.525°$