Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1.6 Radians Day 2**

Graph the following angles. Label π and 2π on your graph with a common denominator. Remember to find a coterminal angle between 0 and 2π if necessary.

1.  2.  3.  4.

Draw the terminal side of each angle and find the corresponding reference angle

5.  6.  7.  8. 

9.  10.  11.  12. 

13. A clothes dryer rotates 500 revolutions every minute. Determine its angular velocity in radians per second.

14. A bike wheel makes 1.8 revolutions in 5 seconds and has a radius of 25 inches. Determine its anglular velocity and its linear velocity.

15. The minute hand of a clock is 27 milimeters long. Find the linear velocity in millimeters per second.

16. Assume the hard drive on a computer is circular and rotates at 7200 revolutions per minute. What is the angular velocity in radians per minute? What is the linear velocity in inches per minute of a particle located 2 inches from the center of the hard drive? What is the linear velocity in miles per hour?