Math 3 Honors – Radians WS

Name: _____ Date: _____

1. Convert 165° to radians.

2. Convert 200° to radians.

3. Convert $\frac{12\pi}{15}$ radians to degrees.

4. Convert $\frac{5\pi}{2}$ radians to degrees.

5. Convert 1.8 radians to degrees.

6. In what quadrant would you end up if you started at (0,1) and went counterclockwise

   a. $\frac{3\pi}{4}$ radians

   b. $\frac{11\pi}{6}$ radians

   c. $\frac{\pi}{4}$ radians

7. An ant starts at $\frac{4\pi}{3}$ and walks around the unit circle π radians clockwise. Where exactly does it end up?

8. An ant starts at $\frac{2\pi}{3}$ and walks around the unit circle $\frac{\pi}{2}$ radians counterclockwise. Where exactly does it end up?

9. An ant starts at $\frac{5\pi}{4}$ and walks around the unit circle $\frac{3\pi}{2}$ radians clockwise. Where exactly does it end up?