## Algebra 2 Bellwork

## Degrees, Radians, and Coterminal Angles

Convert each to degrees.

1. 
$$\frac{13\pi}{2}$$

2. 
$$-\frac{31\pi}{9}$$

3. 
$$\frac{7\pi}{15}$$

4. 
$$-13\pi$$

Convert to radians. Give your answer as a reduced fraction where necessary (no decimals!)

Find an angle between 0° and 360° that is coterminal with the given angles.

Find an angle between 0 and  $2\pi$  that is coterminal with the given angles.

11. 
$$-\frac{37\pi}{13}$$

12. 
$$\frac{63\pi}{5}$$

In which quadrant or on which axis does the terminal side of each angle lie?

14. 
$$\frac{46\pi}{4}$$

16. 
$$-\frac{28\pi}{3}$$

Algebra 2 Bellwork Degrees, Radians, and Coterminal Angles



Convert each to degrees.

1. 
$$\frac{13\pi}{2}$$
  $\left[170^{\circ}\right]$ 

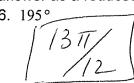
2. 
$$-\frac{31\pi}{9}$$
  $\left[-620^{\circ}\right]$  3.  $\frac{7\pi}{15}$  /84°

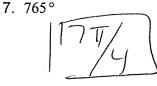
3. 
$$\frac{7\pi}{15}$$
  $\left(84^{\circ}\right)$ 

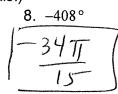
$$\sqrt{\frac{4. -13\pi}{-2340^{\circ}}}$$

Convert to radians. Give your answer as a reduced fraction where necessary (no decimals!)

5. 990°

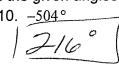






Find an angle between 0° and 360° that is coterminal with the given angles.

9. 1233°



Find an angle between 0 and  $2\pi$  that is coterminal with the given angles.

11.  $-\frac{37\pi}{13}$ 

12. 
$$\frac{63\pi}{5}$$



In which quadrant or on which axis does the terminal side of each angle lie?

13. -1204°

14. 
$$\frac{46\pi}{4}$$

16. 
$$-\frac{28\pi}{3}$$