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. -13π

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

5. $990°$ 6. $195°$ 7. $765°$ 8. $-408°$

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

9. $1233°$ 10. $-504°$

Find an angle between 0 and 2π 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. $\frac{46\pi}{4}$ 15. $1093°$ 16. $-\frac{28\pi}{3}$

Algebra 2 Bellwork Degrees, Radians, and Coterminal Angles Answers

Convert each to degrees.

1. $\frac{13\pi}{2}$ 1170° 2. $-\frac{31\pi}{9}$ −620° 3. $\frac{7\pi}{15}$ 84° 4. -13π −2340°

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

5. $990°$ $\frac{11\pi}{2}$ 6. $195°$ $\frac{13\pi}{12}$ 7. $765°$ $\frac{17\pi}{4}$ 8. $-408°$ $\frac{-34\pi}{15}$

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

9. $1233°$ 153° 10. $-504°$ 216°

Find an angle between 0 and 2π that is coterminal with the given angles.

11. $-\frac{37\pi}{13}$ $\frac{15\pi}{13}$ 12. $\frac{63\pi}{5}$ $\frac{3\pi}{5}$

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

13. $-1204°$ III 14. $\frac{46\pi}{4}$ neg y-axis 15. $1093°$ I 16. $-\frac{28\pi}{3}$ II