Bellwork Hon Alg 2 Wednesday, May 10, 2017

Find both a positive and a negative coterminal angle for each given angle. Give your answer with the same units as the given angle.

1. $2645°$

Pos: Neg:

2. $-\frac{19\pi}{5}$

Pos: Neg:

3. $-978°$

Pos: Neg:

4. $\frac{31\pi}{11}$

Pos: Neg:

Find the measure of an angle between $0°$ and $360°$, or between 0 and 2π, that is coterminal to the given angle. Give your answer with the same units as the given angle.

5. $2215°$

6. $-1720°$

7. $\frac{32\pi}{7}$

8. $-\frac{27\pi}{4}$

Bellwork Hon Alg 2 Wednesday, May 10, 2017 ANSWERS

Find both a positive and a negative coterminal angle for each given angle. Give your answer with the same units as the given angle. There are an infinite # of answers some of the most common are given

1. $2645°$ $\pm 360°$

Pos: $125°, 485°, 845°, 1205°, 1565°, 1925°, 2285°, 3005°$ ...

Neg: $-235°, -595°, -955°$ ...

2. $-\frac{19\pi}{5}$ $\pm 2\pi$

Pos: $\frac{\pi}{5}, \frac{11\pi}{5}, \frac{21\pi}{5}$ ...

Neg: $-\frac{9\pi}{5}, -\frac{29\pi}{5}, -\frac{39\pi}{5}$ ...

3. $-978°$

Pos: $102°, 462°, 822°$, ...

Neg: $-258°, -618°, -1338°$, ...

4. $\frac{31\pi}{11}$

Pos: $\frac{9\pi}{11}, \frac{53\pi}{11}, \frac{75\pi}{11}$, ...

Neg: $\frac{-13\pi}{11}, \frac{-35\pi}{11}, \frac{-57\pi}{11}$, ...

Find the measure of an angle between $0°$ and $360°$, or between 0 and 2π, that is coterminal to the given angle. Give your answer with the same units as the given angle.

5. $2215°$ $55°$

6. $-1720°$ $80°$

7. $\frac{32\pi}{7}$ $\frac{4\pi}{7}$

8. $-\frac{27\pi}{4}$ $\frac{5\pi}{4}$