

Convert each angle into radian measure. Give answer in terms of  $\pi$  and as a simplified fraction.

1.  $165^\circ$

2.  $420^\circ$

Convert each angle into degrees. Round to the nearest hundredth as necessary.

3.  $\frac{5\pi}{6}$

4.  $\frac{5\pi}{14}$

State a positive and a negative coterminal angle for each. Give your answer in terms of  $\pi$  and as a simplified fraction.

5.  $\frac{15\pi}{4}$

POS:

NEG:

6.  $-\frac{23\pi}{7}$

POS:

NEG:

Find the measure of an angle between 0 and  $2\pi$  that is coterminal with the given angle. Give your answer in terms of  $\pi$  and as a simplified fraction.

7.  $\frac{39\pi}{5}$

8.  $-\frac{11\pi}{6}$

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

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

10.  $-\frac{13\pi}{2}$

11.  $\frac{27\pi}{8}$