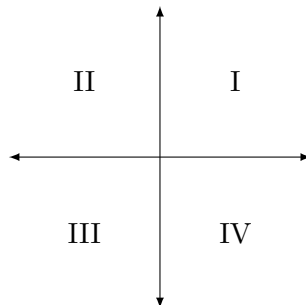


Math 29
PAL Worksheet 19

1. Suppose θ is an angle in standard position and the measure of θ (in radians) is given. In which quadrant does the terminal side of θ lie? (Quadrants are numbered counterclockwise, I, II, III, IV.)

- a. $\frac{35}{6}\pi$
- b. 65
- c. $-\frac{77}{18}\pi$
- d. -172



2. Find an angle between 0 and 2π that is coterminal with an angle whose radian measure is given.

- a. $\frac{31\pi}{7}$
- b. $-\frac{28\pi}{5}$
- c. $\frac{123\pi}{16}$

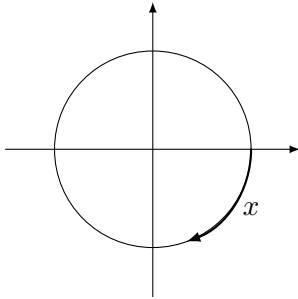
3. Find an angle between -2π and 0 that is coterminal with an angle whose radian measure is given.

- a. $\frac{3\pi}{7}$
- b. $-\frac{17\pi}{5}$
- c. $-\frac{13\pi}{6}$

4. Find three angles with positive radian measure that are coterminal with an angle whose radian measure is $\frac{\pi}{6}$.

5. Find three angles with negative radian measure that are coterminal with an angle whose radian measure is $\frac{\pi}{6}$.

6. An angle of radian measure x is shown in the picture on the unit circle.



On each of the unit circles provided, draw an angle whose radian measure is given.

