

Name \_\_\_\_\_

Date \_\_\_\_\_

# Practice 7.1: Angle Measures & Radians

1. Determine what quadrant the terminal ray is in.

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

b.  $\frac{11\pi}{5}$

c.  $-\frac{\pi}{12}$

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

e.  $291^\circ$

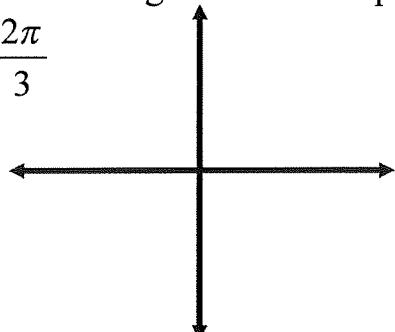
f.  $-1000^\circ$

g. -2

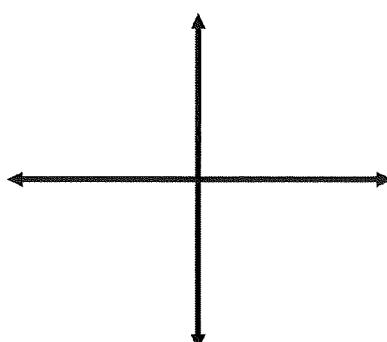
h. 6.1

2. Sketch the angle in standard position.

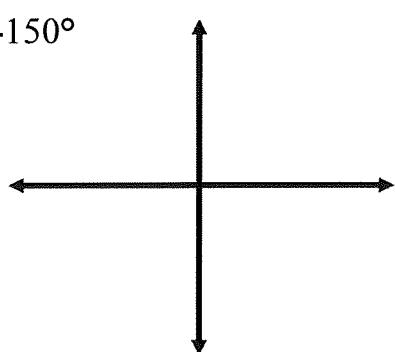
a.  $\frac{2\pi}{3}$



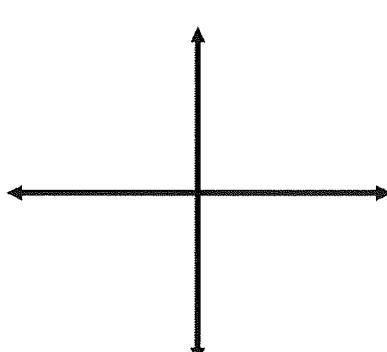
b.  $-\frac{7\pi}{4}$



c.  $-150^\circ$

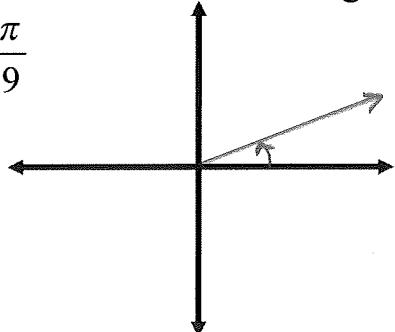


d.  $480^\circ$

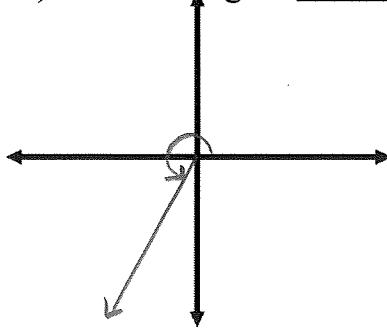


3. Determine 2 coterminal angles (1 positive & 1 negative) for each angle. Use Radians.

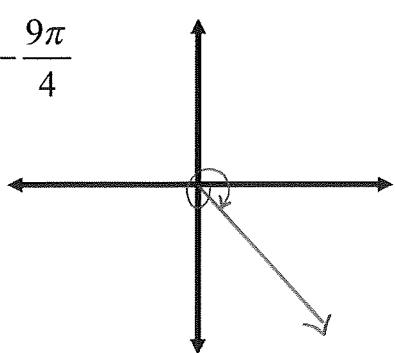
a.  $\frac{\pi}{9}$



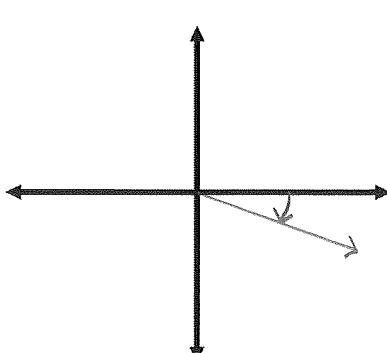
b.  $\frac{4\pi}{3}$



c.  $-\frac{9\pi}{4}$

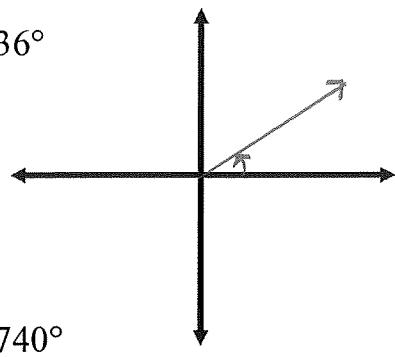


d.  $-\frac{2\pi}{15}$

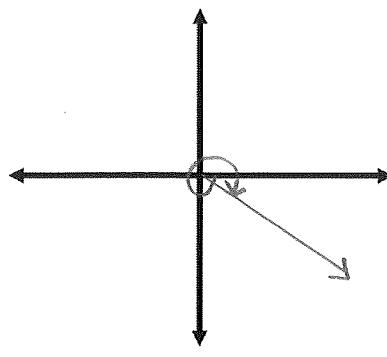


4. Determine 2 coterminal angles (1 positive & 1 negative) for each angle. Use Degrees.

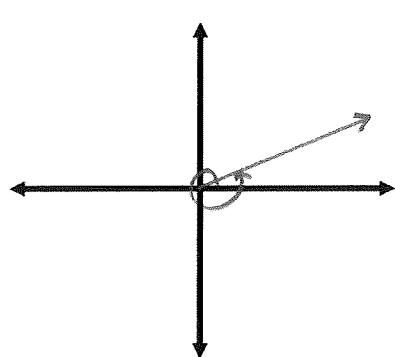
a.  $36^\circ$



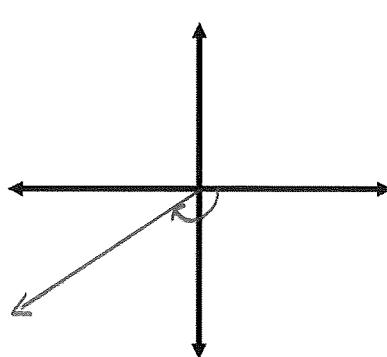
b.  $-390^\circ$



c.  $740^\circ$



d.  $-150^\circ$



5. Find, if possible, the positive angle compliment and supplement of each angle.

a.  $\frac{\pi}{3}$

b.  $\frac{\pi}{10}$

c.  $162^\circ$

d. 1

6. Convert each angle to degrees without using a calculator.

a.  $\frac{3\pi}{2}$

b.  $\frac{7\pi}{6}$

c.  $-\frac{11\pi}{30}$

d.  $\frac{8\pi}{3}$

7. Convert each angle to radians without using a calculator.

a.  $120^\circ$

b.  $315^\circ$

c.  $-330^\circ$

d.  $36^\circ$

8. Convert each angle to degrees.

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

b. 3.5

c.  $-\frac{15\pi}{8}$

d.  $6.5\pi$

9. Convert each angle to radians.

a.  $112^\circ$

b.  $-87.4^\circ$

c.  $0.95^\circ$

d.  $124^\circ 12'$