

Name: _____

Radian and Degree Measure

1) Convert the following angle measurements from degrees to radians. Express your answer exactly (in terms of π).

1) 180 degrees

2) 90 degrees

3) 45 degrees

4) 137 degrees

2) Convert the following angle measurements from radians to degrees.

1) $\frac{\pi}{2}$

2) $\frac{5\pi}{6}$

3) $\frac{3\pi}{4}$

4) $\frac{2\pi}{3}$

3) Determine two coterminal angles (one positive and one negative) for the given angles .

1) 125°

2) 405°

3) $-\frac{3\pi}{5}$

4) $-\frac{\pi}{12}$

5) -400°

6) -95°

4) Find the complement and the supplement if possible of the following angles:

1) 75°

2) 45°

3) $\frac{3}{8}\pi$

4) $\frac{3}{4}\pi$

5) 35°

6) 95°

5) Find a coterminal angle of -27° then determine the quadrant in which the co-terminal angle lies in.

6) Give the degree measure of each of the following angles:

1) $\frac{1}{3}$ rotation

2) $\frac{5}{16}$ rotation

3) 1.5 rotations

7) Give the rotation measure of each of the following degree measures:

1) 760°

2) 60°

3) 630°

4) 32°

5) 45°

6) 75°

8) Find the complements of each of the following angles:

1) 75°

2) 45°

3) 32°

4) 60°