

Name: _____ Period: _____

Chapter 2, Section 5 Worksheet

The following angles are given in radians. Convert them to degrees. Remember $1 \text{ radian} = \frac{180}{\pi}$ degrees.

Locate and circle each one of your answers in the maze below. The answers can be found in lines going horizontally, vertically, or diagonally.

$$\begin{aligned} 1) \quad \frac{\pi}{3} &= \frac{\pi}{3} \left(\frac{180}{\pi} \right) \text{ deg} \\ &= \frac{180^\circ}{3} \\ &= 60^\circ \end{aligned}$$

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

$$3) \quad \frac{7\pi}{4} =$$

$$4) \quad 2\pi =$$

$$5) \quad \frac{\pi}{2} =$$

$$6) \quad \frac{5\pi}{6} =$$

$$7) \quad \frac{2\pi}{3} =$$

$$8) \quad \frac{3\pi}{4} =$$

$$9) \quad \frac{5\pi}{4} =$$

$$10) \quad \frac{5\pi}{3} =$$

$$11) \quad \frac{\pi}{4} =$$

$$12) \quad \frac{4\pi}{9} =$$

$$13) \quad \frac{\pi}{6} =$$

$$14) \quad \frac{7\pi}{10} =$$

$$15) \quad \frac{21\pi}{6} =$$

$$16) \quad \frac{9\pi}{20} =$$

Chapter 2, Section 5 Worksheet

The following angles are given in degrees. Convert them to radians. Remember $1 \text{ degree} = \frac{\pi}{180}$ radians

Write the letter of the radian measurement that matches the equivalent degree measurement in the space before each problem.

$$\text{_____ } 1) 20^\circ = 20 \left(\frac{\pi}{180} \right)$$

$$= \frac{\pi}{9}$$

$$\text{_____ } 2) 45^\circ =$$

$$\text{_____ } 3) 60^\circ =$$

$$A) \frac{13\pi}{6}$$

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

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

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

$$E) \frac{4\pi}{5}$$

$$F) \pi$$

$$\text{_____ } 4) 75^\circ =$$

$$\text{_____ } 5) 90^\circ =$$

$$\text{_____ } 6) 100^\circ =$$

$$G) \frac{\pi}{9}$$

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

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

$$\text{_____ } 7) 135^\circ =$$

$$\text{_____ } 8) 150^\circ =$$

$$\text{_____ } 9) 180^\circ =$$

$$K) \frac{5\pi}{12}$$

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

$$M) \frac{23\pi}{12}$$

$$\text{_____ } 10) 225^\circ =$$

$$\text{_____ } 11) 270^\circ =$$

$$\text{_____ } 12) 300^\circ =$$

$$N) 4\pi$$

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

$$P) \frac{7\pi}{4}$$

$$\text{_____ } 13) 315^\circ =$$

$$\text{_____ } 14) 345^\circ =$$

$$\text{_____ } 15) 360^\circ =$$

$$Q) \frac{5\pi}{9}$$

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

$$S) \frac{\pi}{5}$$

$$T) 2\pi$$

$$U) \frac{5\pi}{4}$$

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

$$\text{_____ } 16) 390^\circ =$$

$$\text{_____ } 17) 450^\circ =$$

$$\text{_____ } 18) 720^\circ =$$