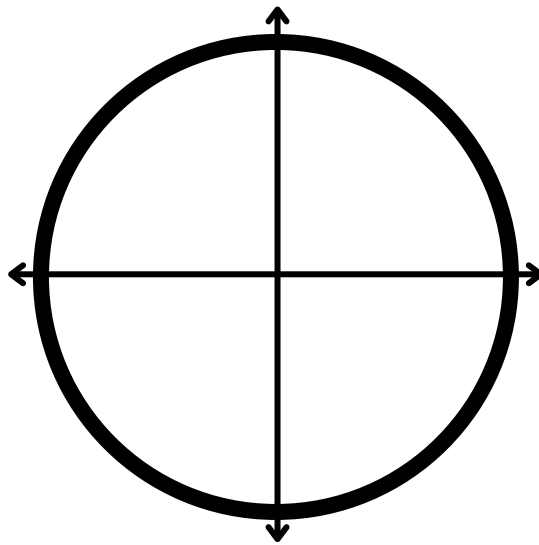


# Unit Circle Worksheet

Name: \_\_\_\_\_ Grade: \_\_\_\_\_

## Instructions:

- Use the unit circle diagram to answer the questions below.
- Label angles in degrees and radians, identify coordinates, and evaluate sine and cosine values.
- Focus on the four main points: top, bottom, left, and right of the circle.



## Answer the below Questions:

1. What is the degree and radian measure of the angle pointing directly to the right?
2. What are the coordinates of the top point on the unit circle?
3. Which angle corresponds to the point (0, -1)?
4. Label all four quadrantal angles in both degrees and radians.
5. What is the cosine value of the angle at the left side of the circle?
6. What is the sine of  $90^\circ$ ?

# Unit Circle Worksheet

## Answer Key

1.  $0^\circ$ , 0 radians

2. (0, 1)

3.  $270^\circ$ ,  $3\pi/2$

4.

- Right:  $0^\circ$ , 0 radians
- Top:  $90^\circ$ ,  $\pi/2$
- Left:  $180^\circ$ ,  $\pi$
- Bottom:  $270^\circ$ ,  $3\pi/2$

5.  $\cos(180^\circ) = -1$

6.  $\sin(90^\circ) = 1$