Unit Circle Worksheet

Section 1: Degree & Radian Conversions

1. Convert 45º to radians.
2. Convert 5π/6 radians to degrees.
3. Convert 270º to radians.
4. Convert π/4 radians to degrees.
5. Convert 330º to radians.

Section 2:Use the unit circle to find the missing values.

1. What are the coordinates of 120º on the unit circle?
2. What is the sine of 210º?
3. What is the cosine of 300º?
4. Find the tangent of 135º.
5. What are the coordinates of 270º on the unit circle?

Section 3: Conceptual Based Questions

1. In which quadrants is the sine function negative?
2. A wind turbine blade rotates 180º in 10 seconds. How many radians does it rotate per second?