Unit Circle Worksheet

Test your understanding of the unit circle by determining whether each statement is true or false. Provide explanations for incorrect statements.

The unit circle has a radius of 1.	True / False	The radian measure of 180° is π radians.	True / False
The point (1,0) represents 90° on the unit circle	True / False	Sin(360°) = Sin(0°).	True / False
The cosine of 270° is –1.	True / False	The tangent function is negative in Quadrants II and IV.	True / False
The tangent of 45° is equal to 1.	True / False	The tangent of an angle is undefined when the cosine value is 0.	True / False
The sine function is positive in Quadrants I and II.	True / False	The unit circle only works for angles between 0° and 360°	True / False