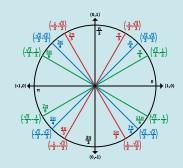
## Unit Circle Worksheet



Why is the tangent of 180° equal to 0?

If a wind turbine blade rotates 90° every 5 seconds, how many radians does it rotate in 20 seconds?

A ramp makes an angle of 30° with the ground. If the ramp is 10 meters long, find its horizontal length using the cosine function.

If  $sin(\theta) = -1/2$ , what are the two possible values of  $\theta$  between 0° and 360°?

Find the reference angle for 315° and explain how reference angles help in evaluating trigonometric functions