

# UNIT CIRCLE WORKSHEET

A satellite dish needs to be angled to make a  $30^\circ$  angle with the ground to properly align with a geostationary satellite. Using the unit circle, determine the cosine value of this angle to calculate the necessary horizontal distance for the setup if the height of the dish is known.

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The cosine of any angle at  $\pi$  radians ( $180^\circ$ ) is always positive

True

False

The sine value for angles at  $\pi/2$  radians ( $90^\circ$ ) and  $3\pi/2$  radians ( $270^\circ$ ) are the same

True

False

What is the sine of  $270^\circ$ ?

1

-1

0

undefined