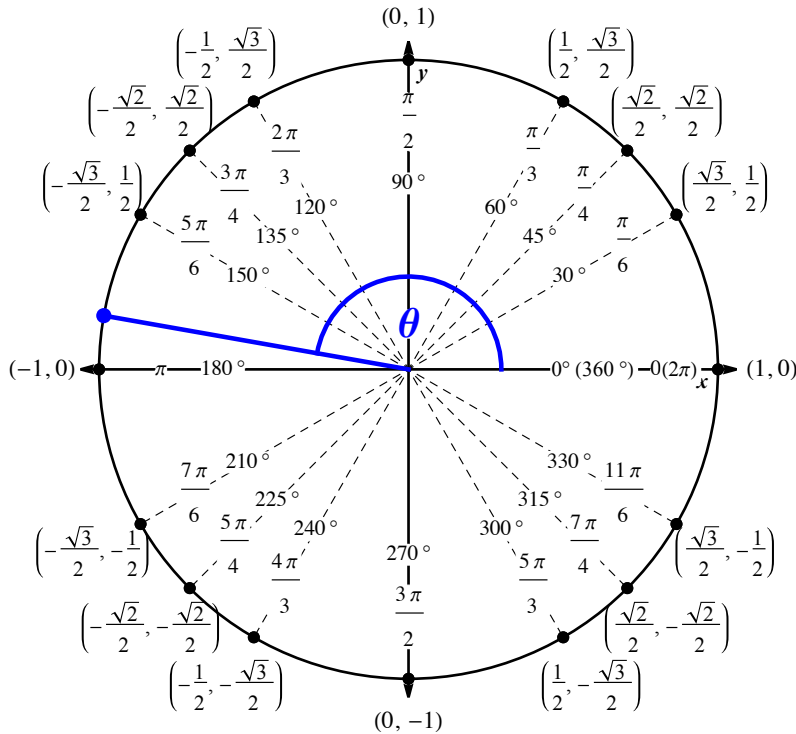
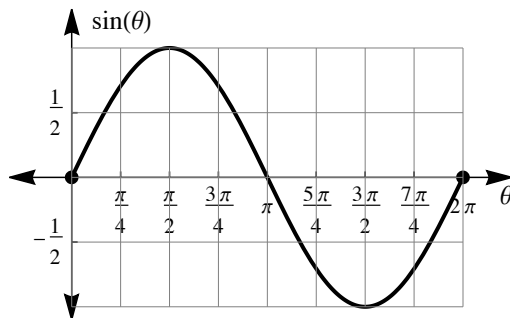


Trigonometry 19: The Graph of $\sin(\theta)$

Imagine doing the walk around the unit circle again, but this time think about what is happening to the values of $\sin \theta$ (your y-coordinate values). What would sketch of $f(\theta) = \sin(\theta)$ look like if we graphed it?



For one complete walk around the circle (one revolution), here is a graph of the sine values:



Of course we could keep walking in the counterclockwise direction and θ would continue to grow. And if we started at at (1, 0) where $\theta = 0$ and walked clockwise (backwards), the θ values would be negative: the angle θ can be any real number and the full graph of $f(\theta) = \sin(\theta)$ looks like:

