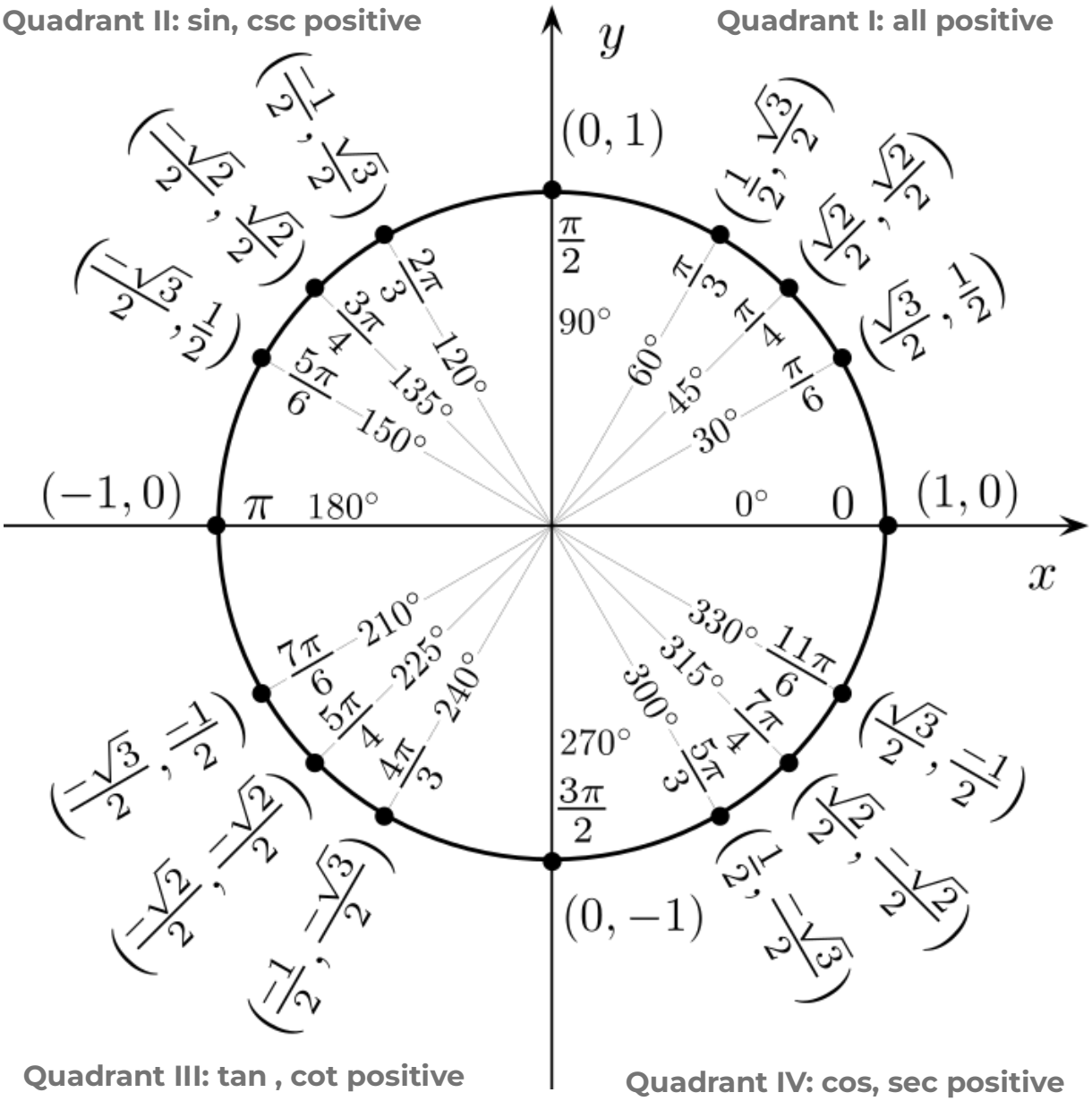
Unit Circle for Trigonometry



$sin\ \theta =$ y coordinate of any point on the circle:	$sin\ \theta =$ y	$csc\ \theta = \frac{1}{sin\ \theta} = \frac{1}{y}$
$cos\ \theta = x$ coordinate of any point on the circle:	$cos\ \theta =$ x	$sec\ \theta = \frac{1}{cos\ \theta} = \frac{1}{x}$
$cos\ \theta = \frac{\text{y coordinate}}{\text{x coordinate}}$	$tan\ \theta = \frac{\sin\theta}{cos\theta} = \frac{y}{x}$	$cot\ \theta = \frac{cos\ \theta}{sin\ \theta} = \frac{x}{y}$