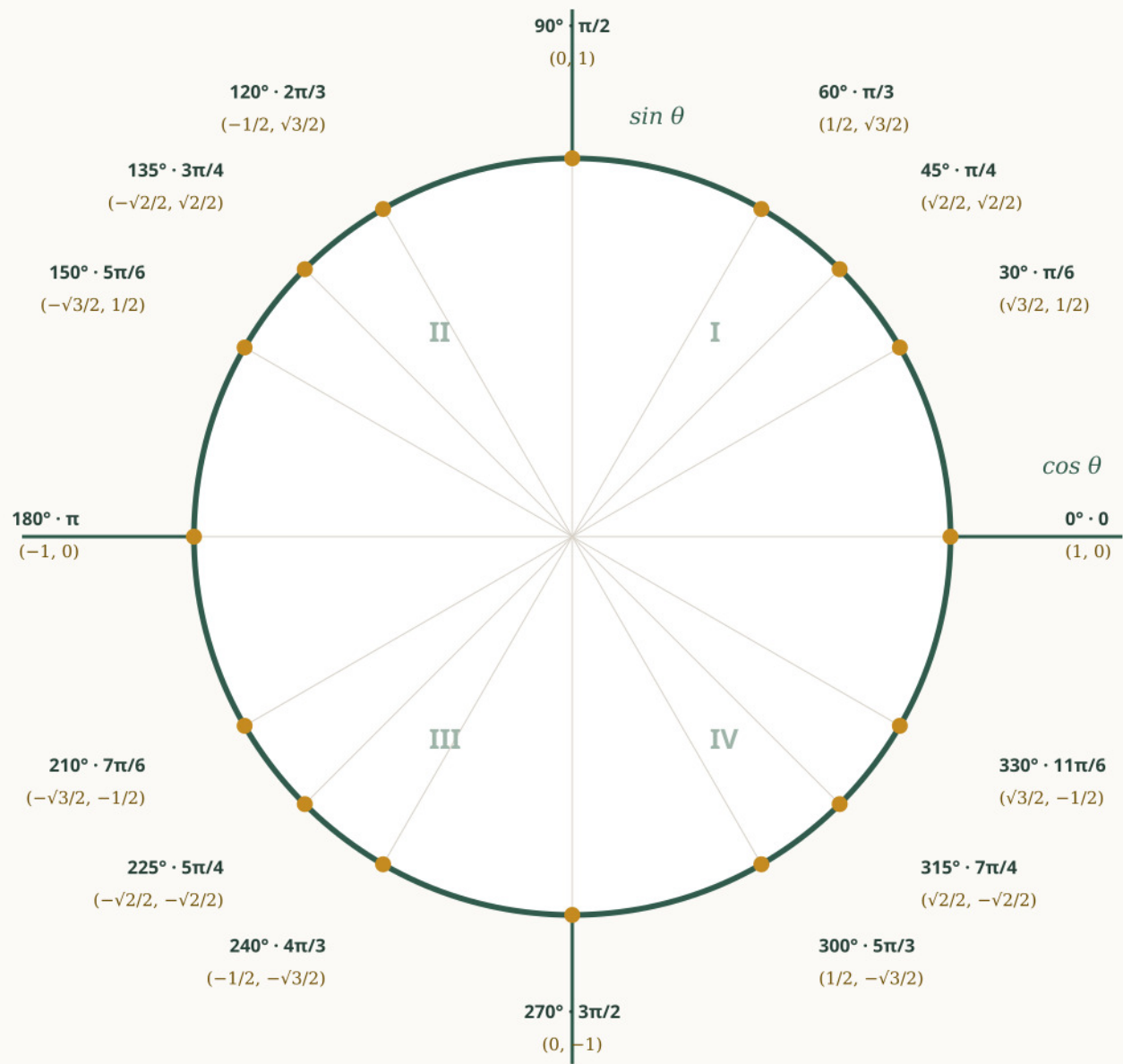


Unit Circle Chart: Degrees, Radians & Trig Values

A complete unit circle chart with degrees, radians, ordered pairs, and exact sine and cosine values, plus a blank printable practice circle.



Unit Circle Chart: Degrees, Radians & Trig Values

01 How the coordinates work

Every point on the unit circle has radius 1.

Coordinate rule

$$P(\theta) = (\cos \theta, \sin \theta)$$

Pythagorean identity

$$\cos^2 \theta + \sin^2 \theta = 1$$

Unit Circle Chart: Degrees, Radians & Trig Values

02 Quadrant signs

Use the reference angle for magnitude and the quadrant for signs.

Quadrant I

$\cos +$, $\sin +$

Quadrant II

$\cos -$, $\sin +$

Quadrant III

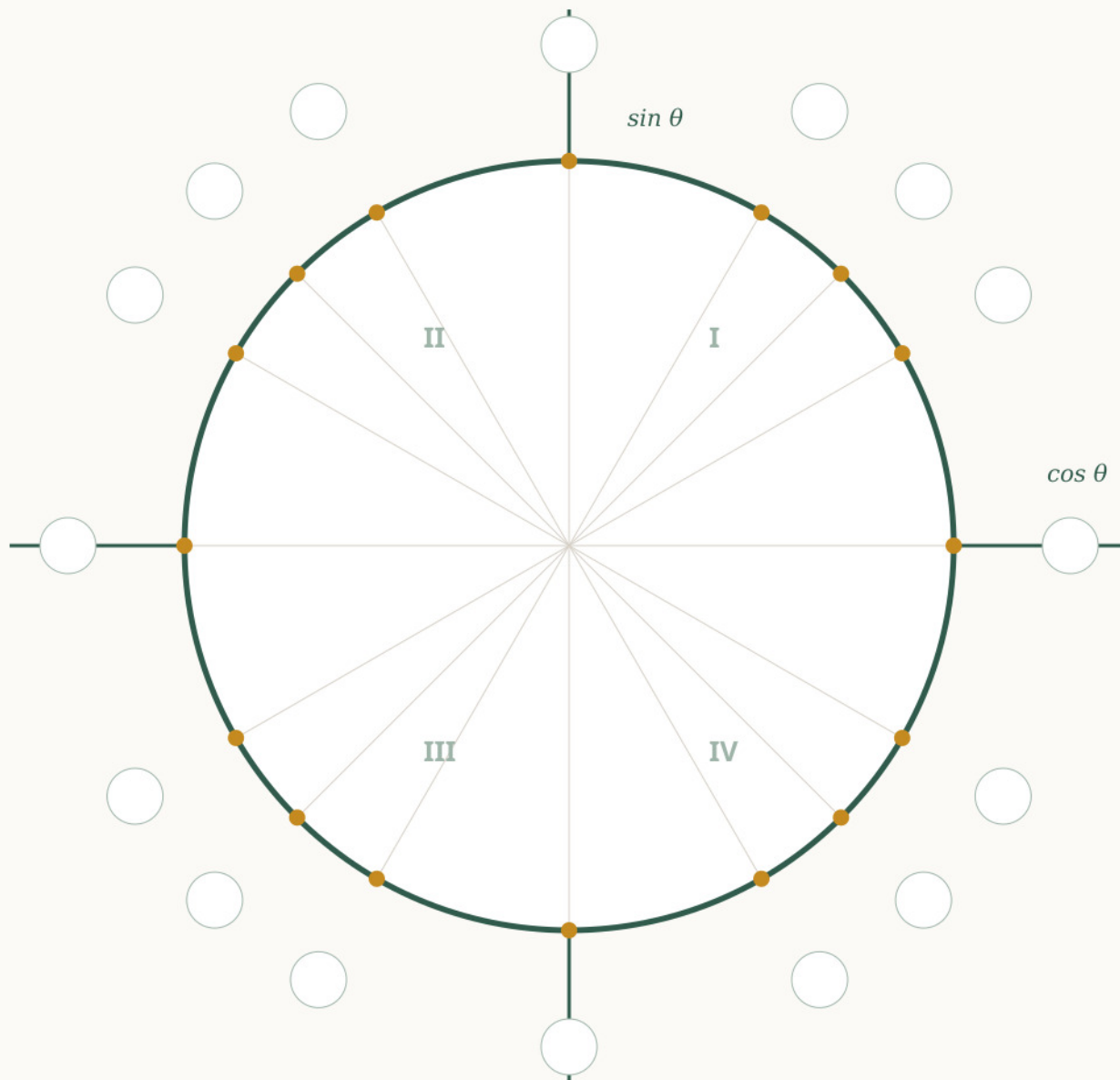
$\cos -$, $\sin -$

Quadrant IV

$\cos +$, $\sin -$

Unit Circle Chart: Degrees, Radians & Trig Values

Fill in degrees, radians, coordinates, sine, and cosine.



Unit Circle Chart: Degrees, Radians & Trig Values

HOW TO REMEMBER IT

Memorize one quadrant, then use signs

1

Learn 0° , 30° , 45° , 60° , and 90° first.

2

Cosine is the x-coordinate; sine is the y-coordinate.

3

Reflect the first-quadrant values and apply the quadrant sign pattern: all, sine, tangent, cosine.