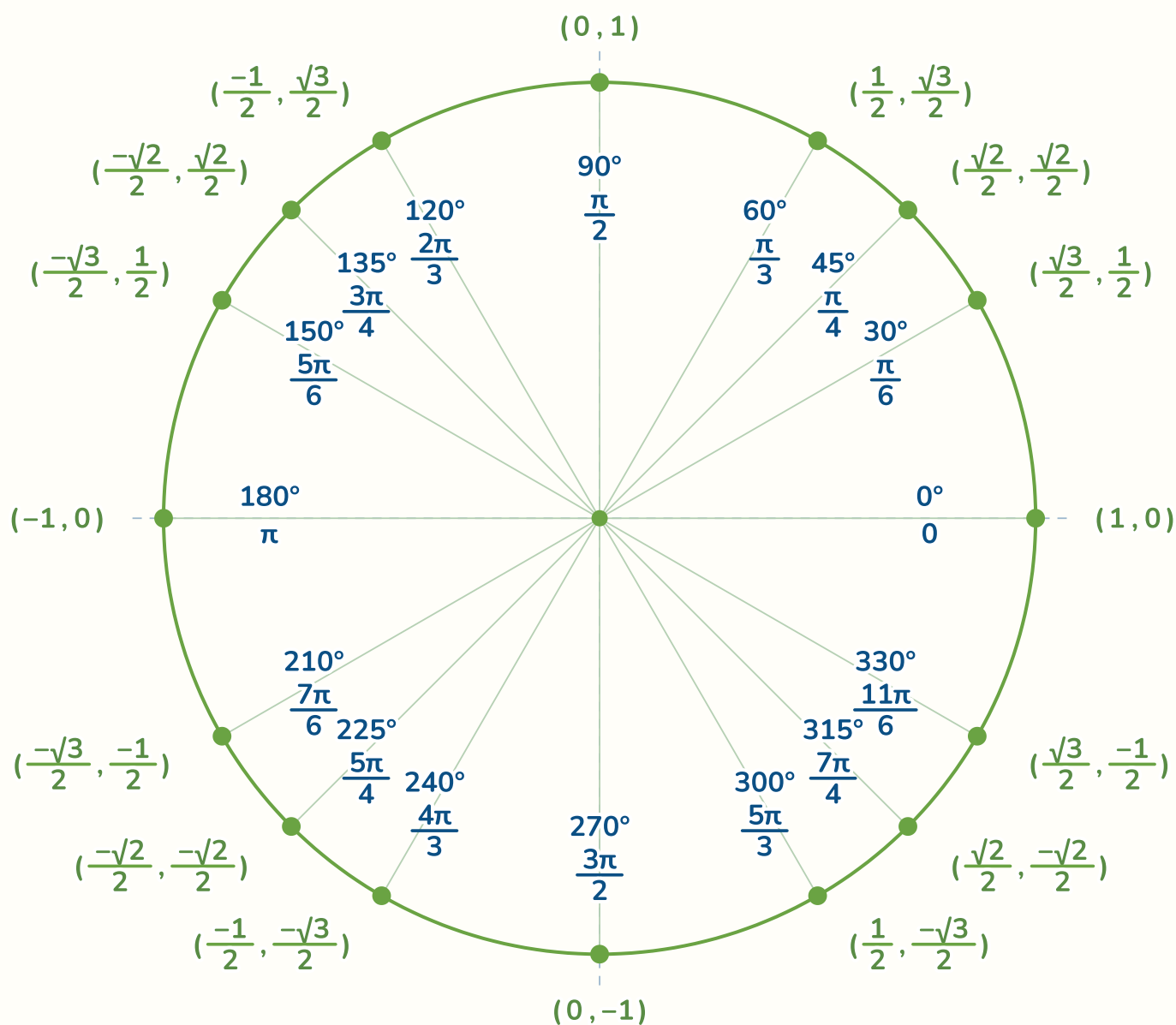


The unit circle



Every point is $(\cos \theta, \sin \theta)$. The x-coordinate is the cosine, the y-coordinate is the sine — so the circle holds every exact value at once, and the signs come free from which quarter the angle lands in.