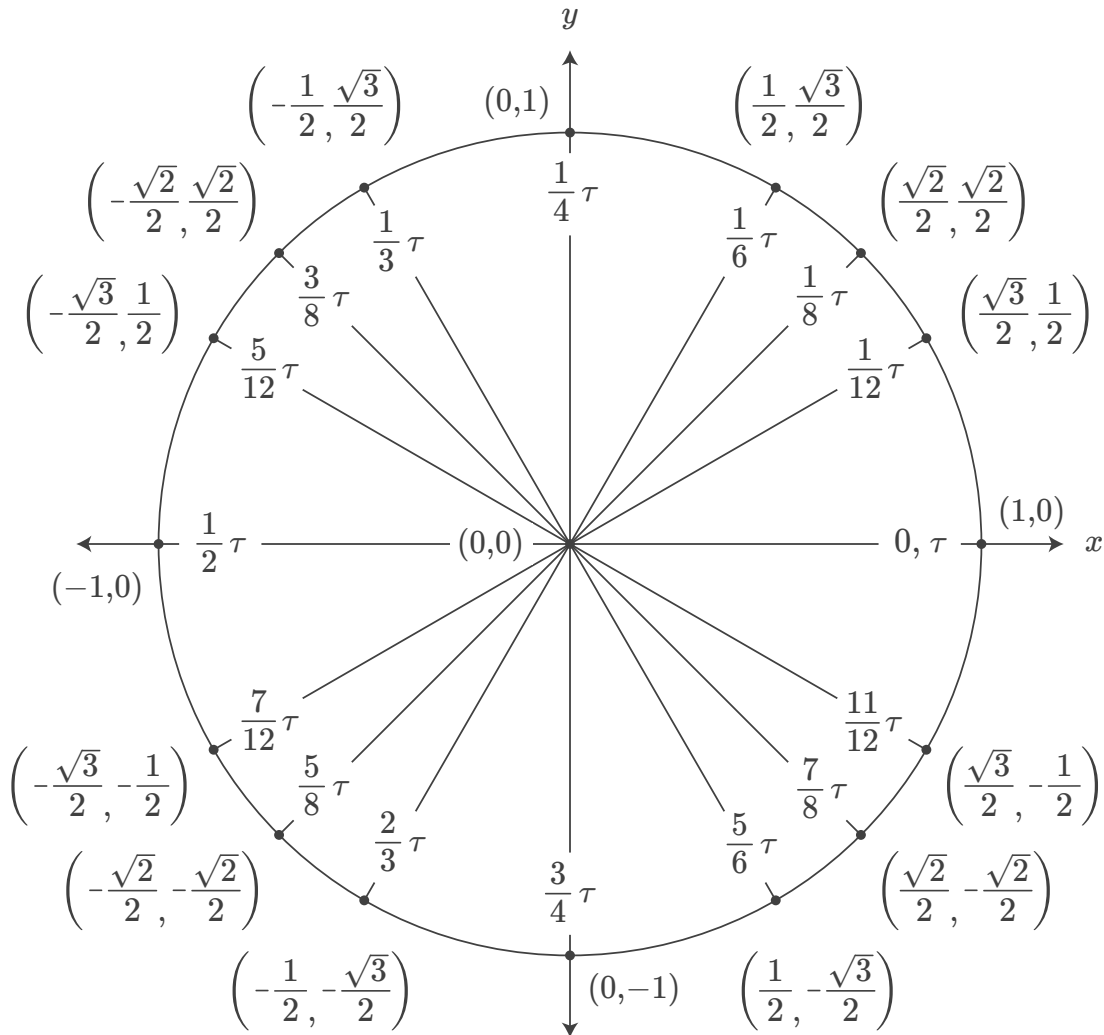# Unit Circle Chart


The unit circle chart shows the positions of the points on the unit circle that are formed by dividing the circle into equal parts. This chart shows the points formed from dividing the unit circle into eight and twelve parts. The angle that each point corresponds to is measured in radians, where a full rotation is equal to τ (tau) radians. The coordinates of the points correspond to the output of the trigonometric functions sine and cosine [link]. Geometrically, the coordinates of the points can be solved for using the properties of the two special right triangles [link].

Note, the conversion $\tau = 2\pi$ can be used to annotate the angles using the constant π (pi). Alternatively, to convert the angles to degrees, substitute 360 degrees for τ radians.
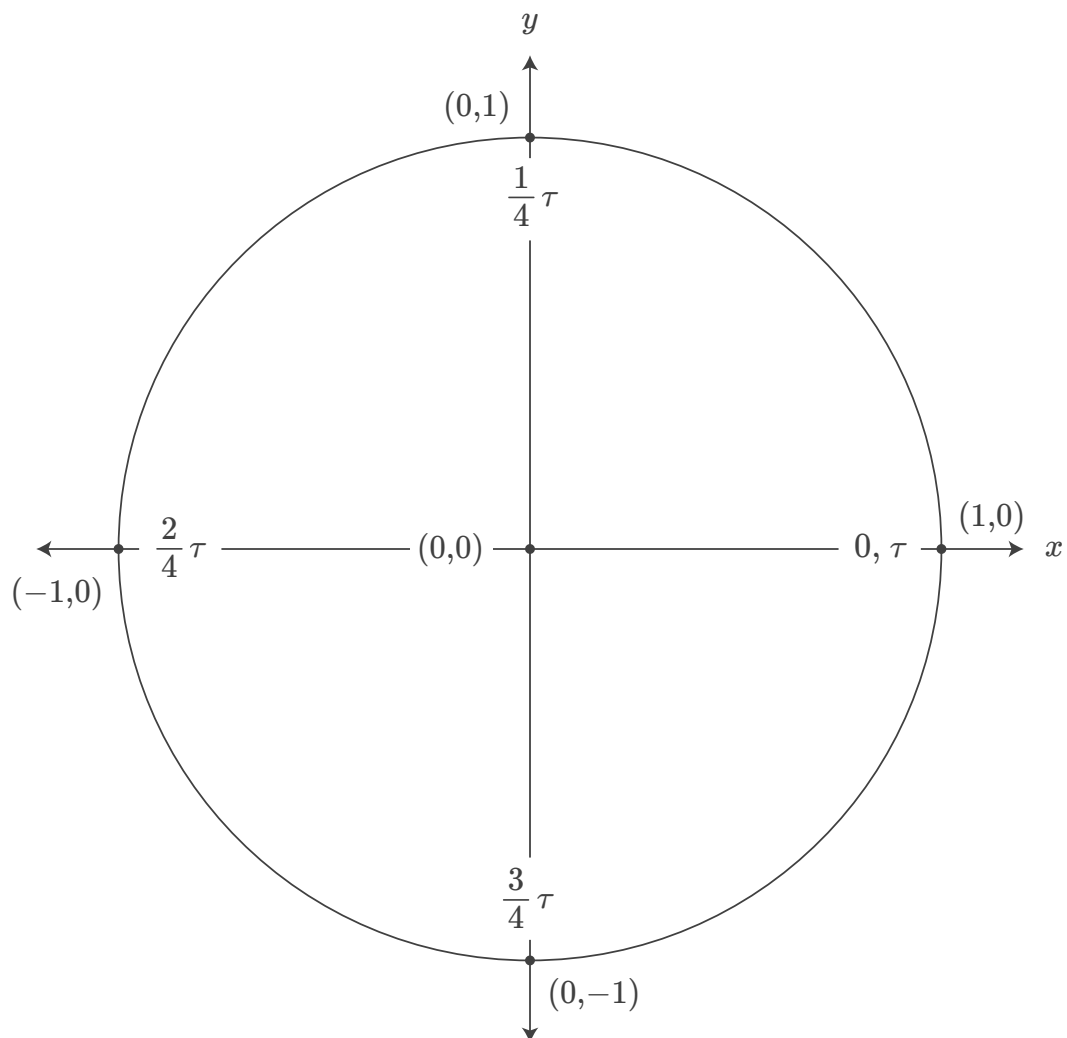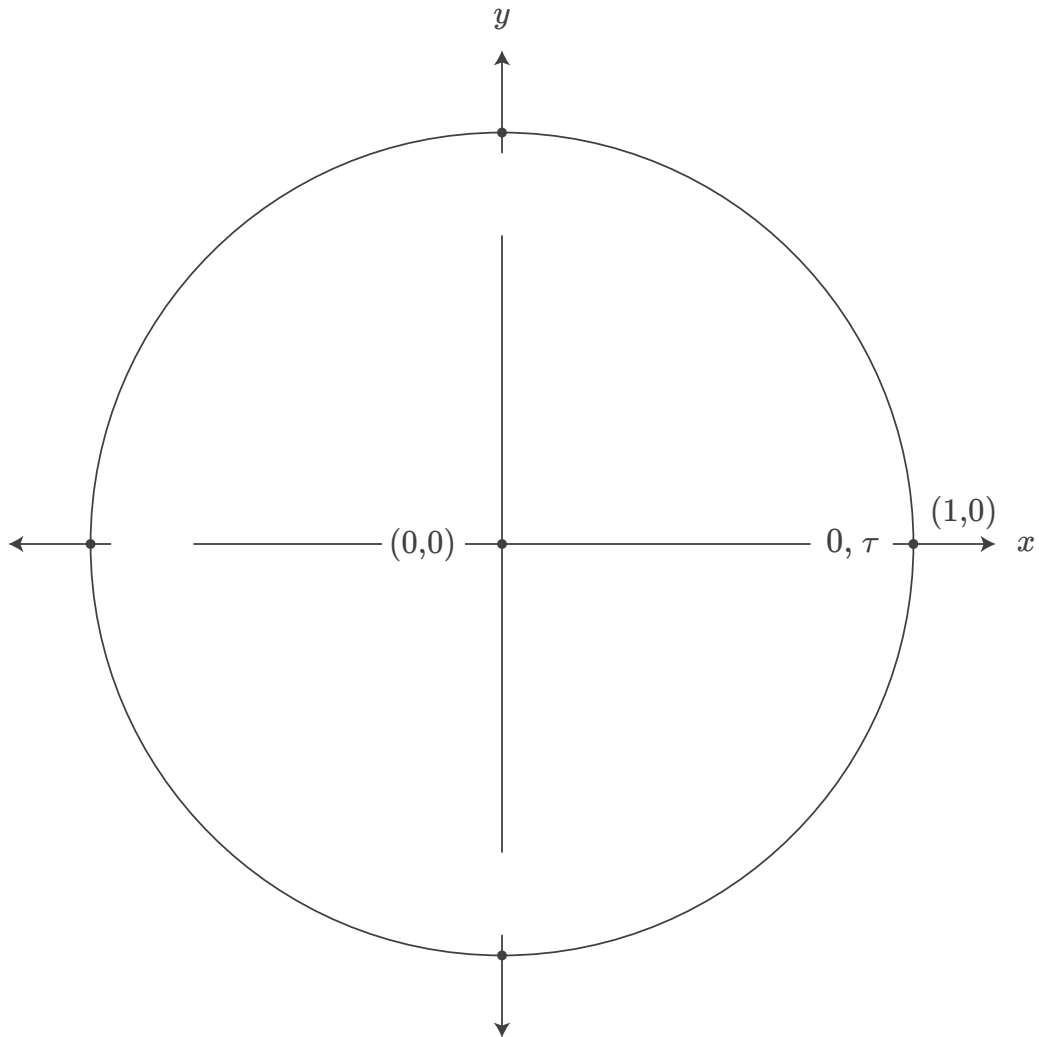
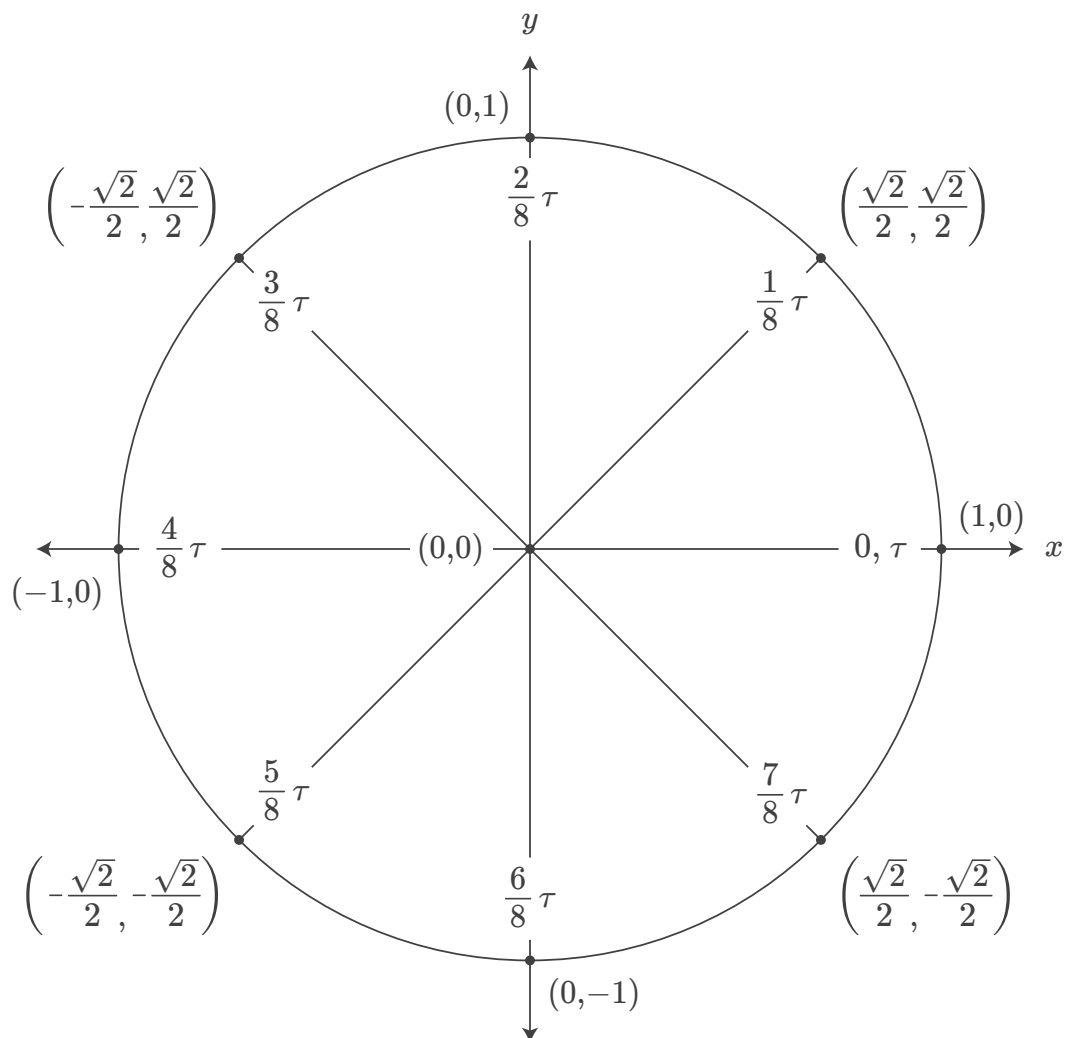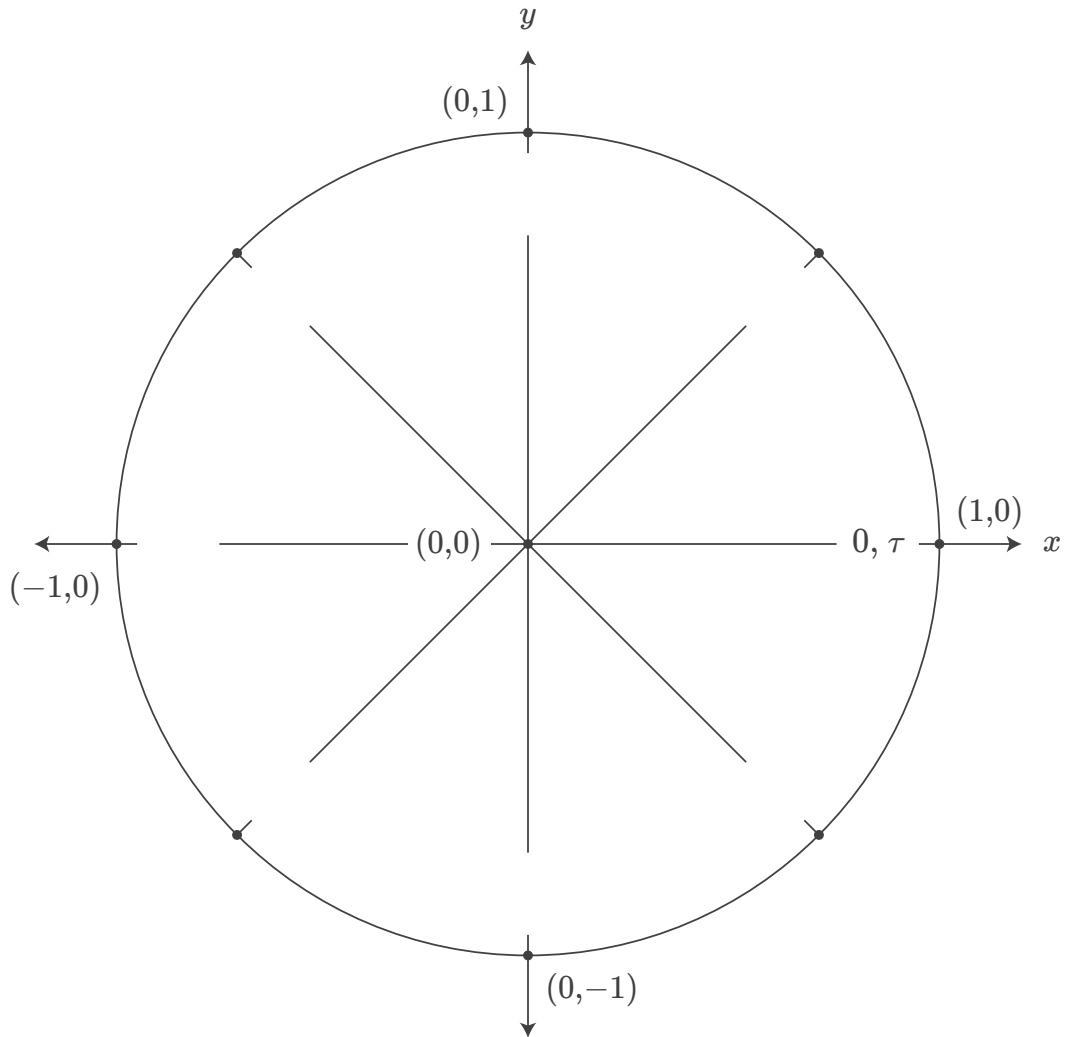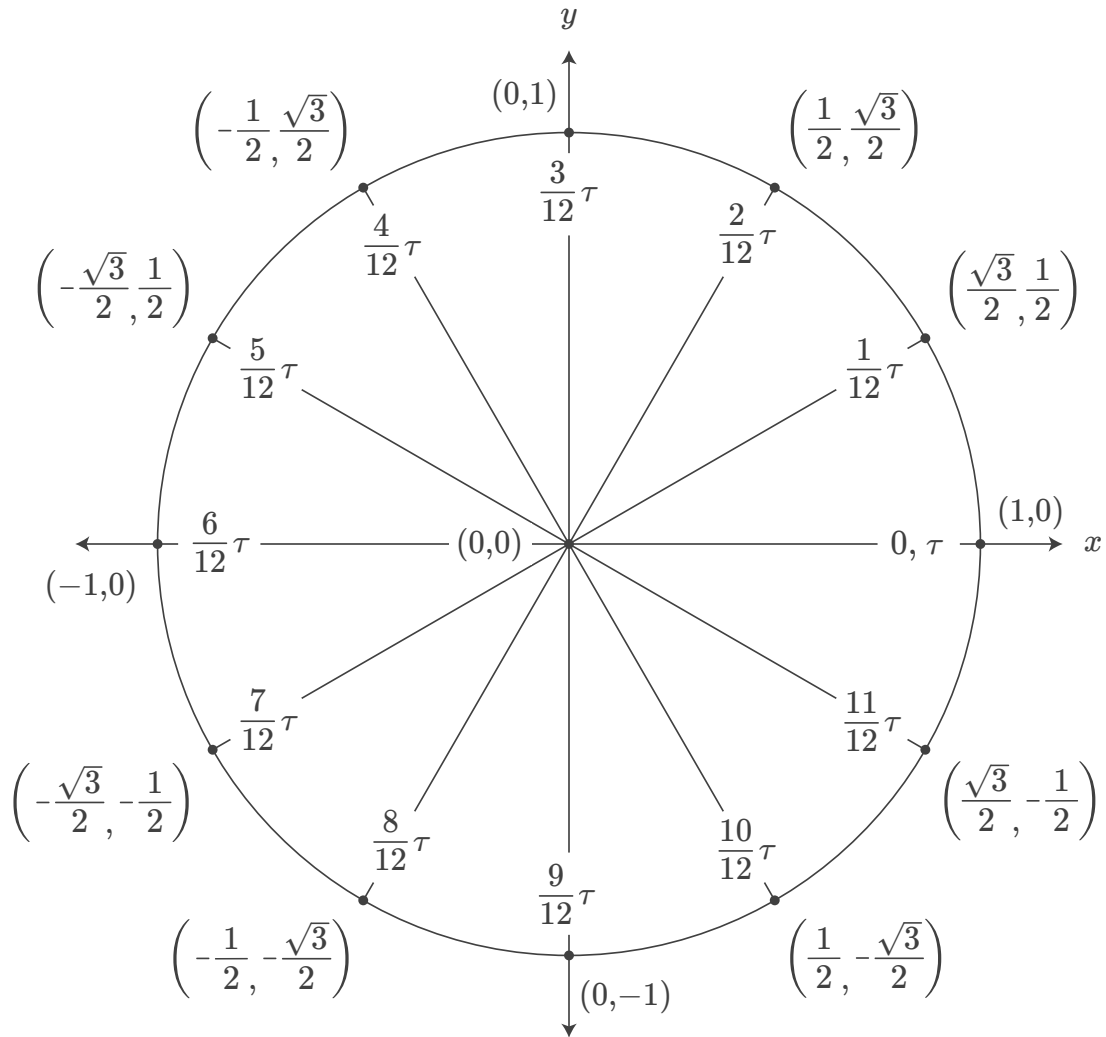# Unit Circle Chart (Blank)
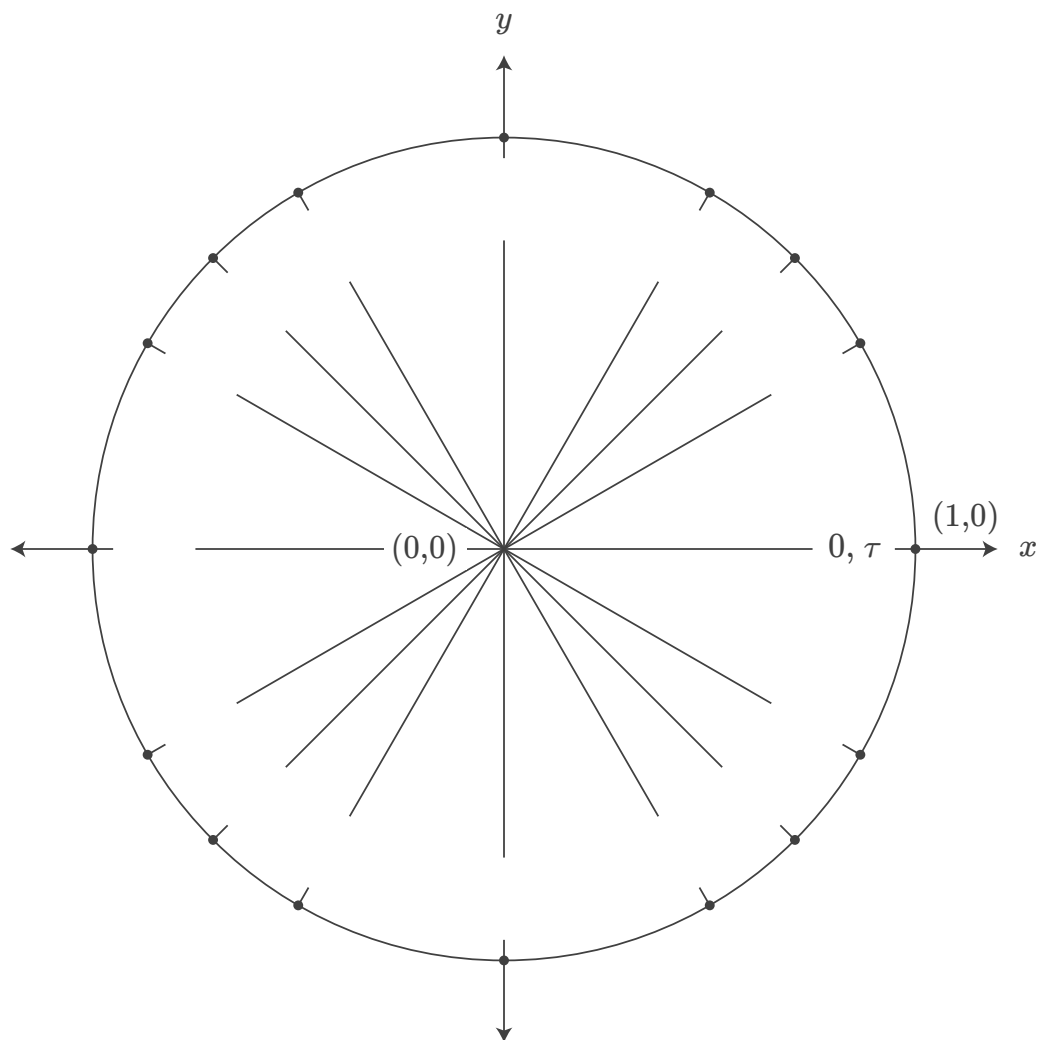
Unit Circle Divided by 4

Unit Circle Divided by 4 (Blank)

Unit Circle Divided by 8

Unit Circle Divided by 8 (Blank)

y

$(0,1)$

$(1,0)$

$(0,0)$

$0, \tau$

x

$(-1,0)$

$(0,-1)$

Unit Circle Divided by 12

Unit Circle Divided by 12 (Blank)