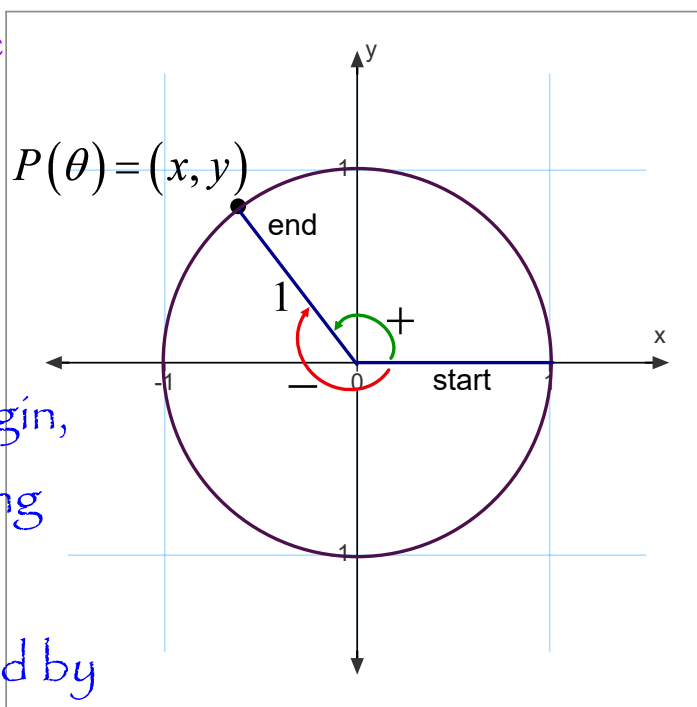


Trigonometric Circle

The trigonometric circle is a unit circle centred at the origin.
radius = 1

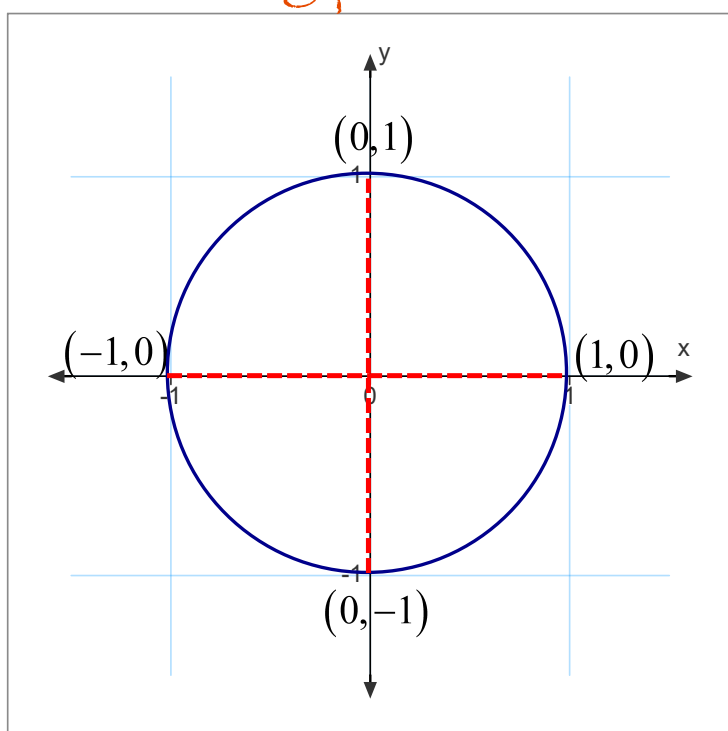
Any point on the circle is called a trigonometric point.

A trigonometric angle has its vertex at the origin, its fixed initial side along the positive x -axis, and its terminal side created by a rotation from the initial side.



Every angle corresponds with a trigonometric point.

Known trig points:



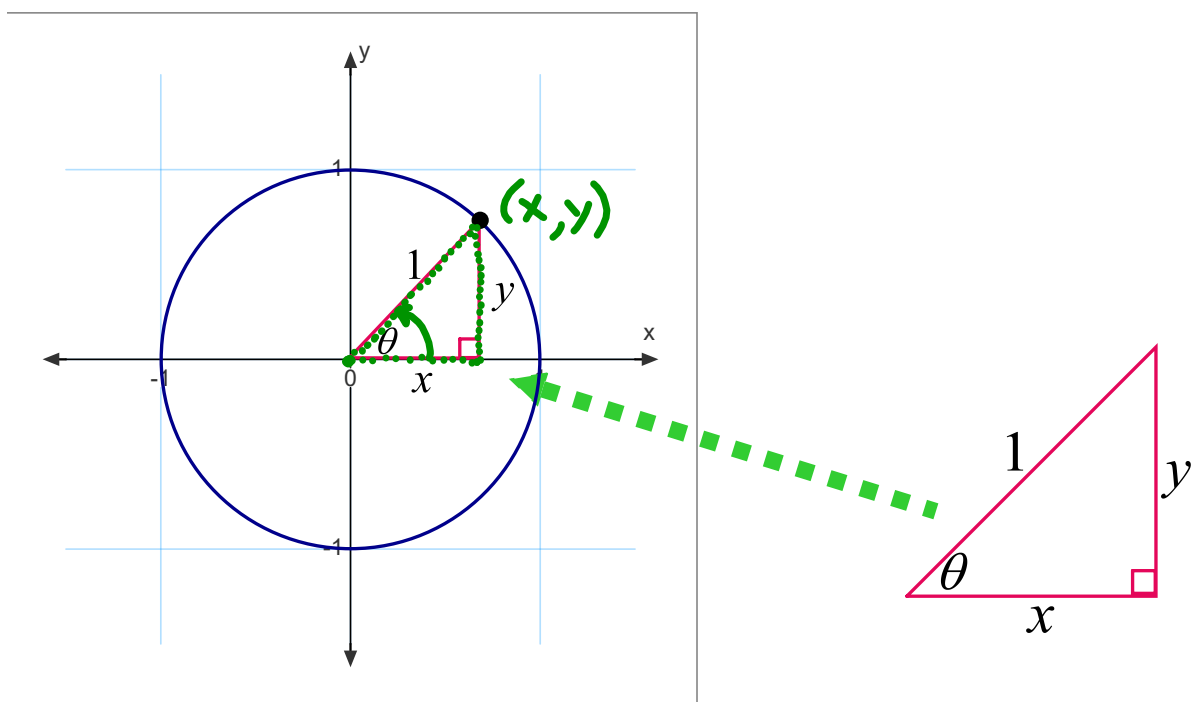
$$P(0^\circ) = (1, 0)$$

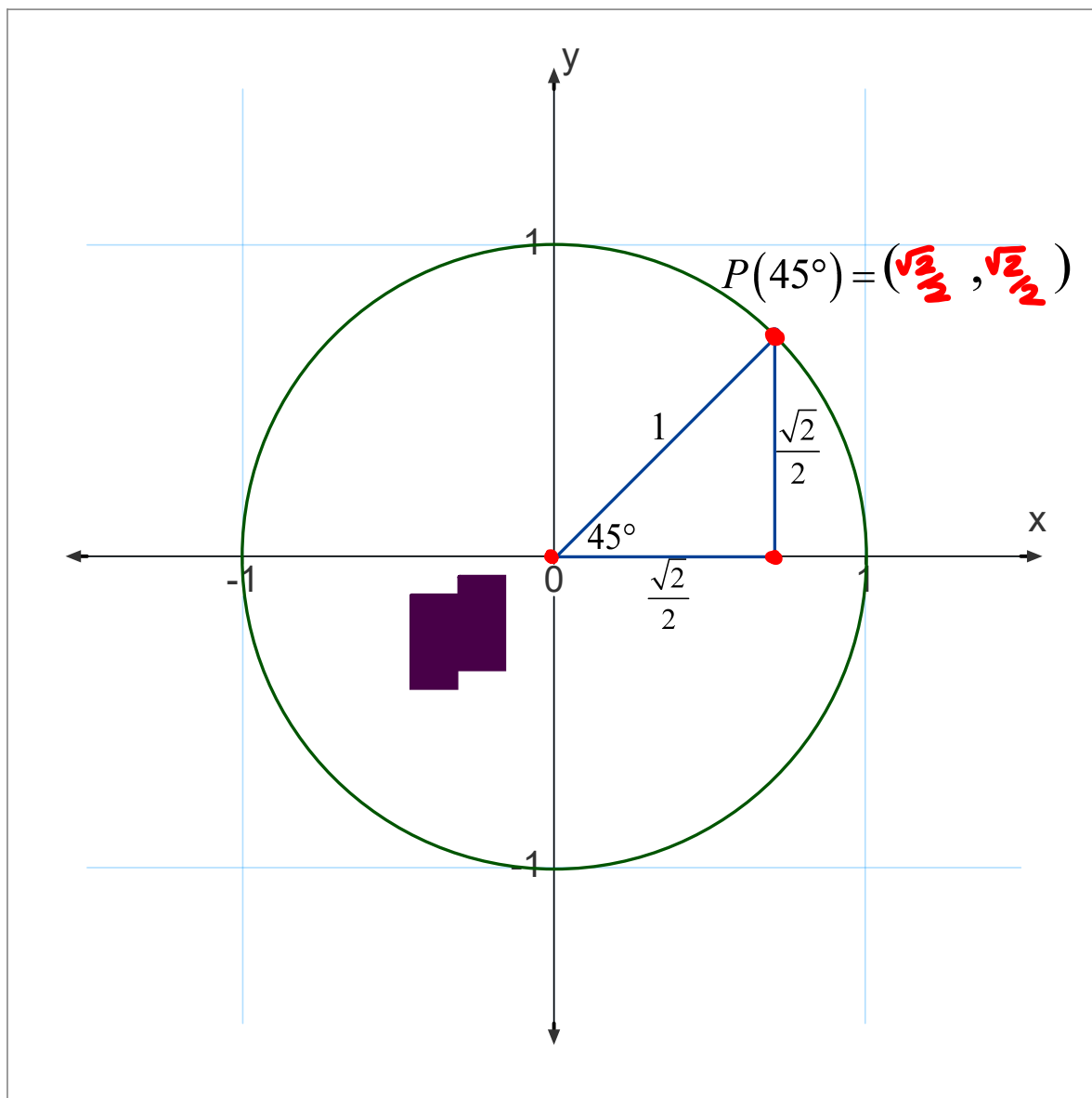
$$P(90^\circ) = (0, 1)$$

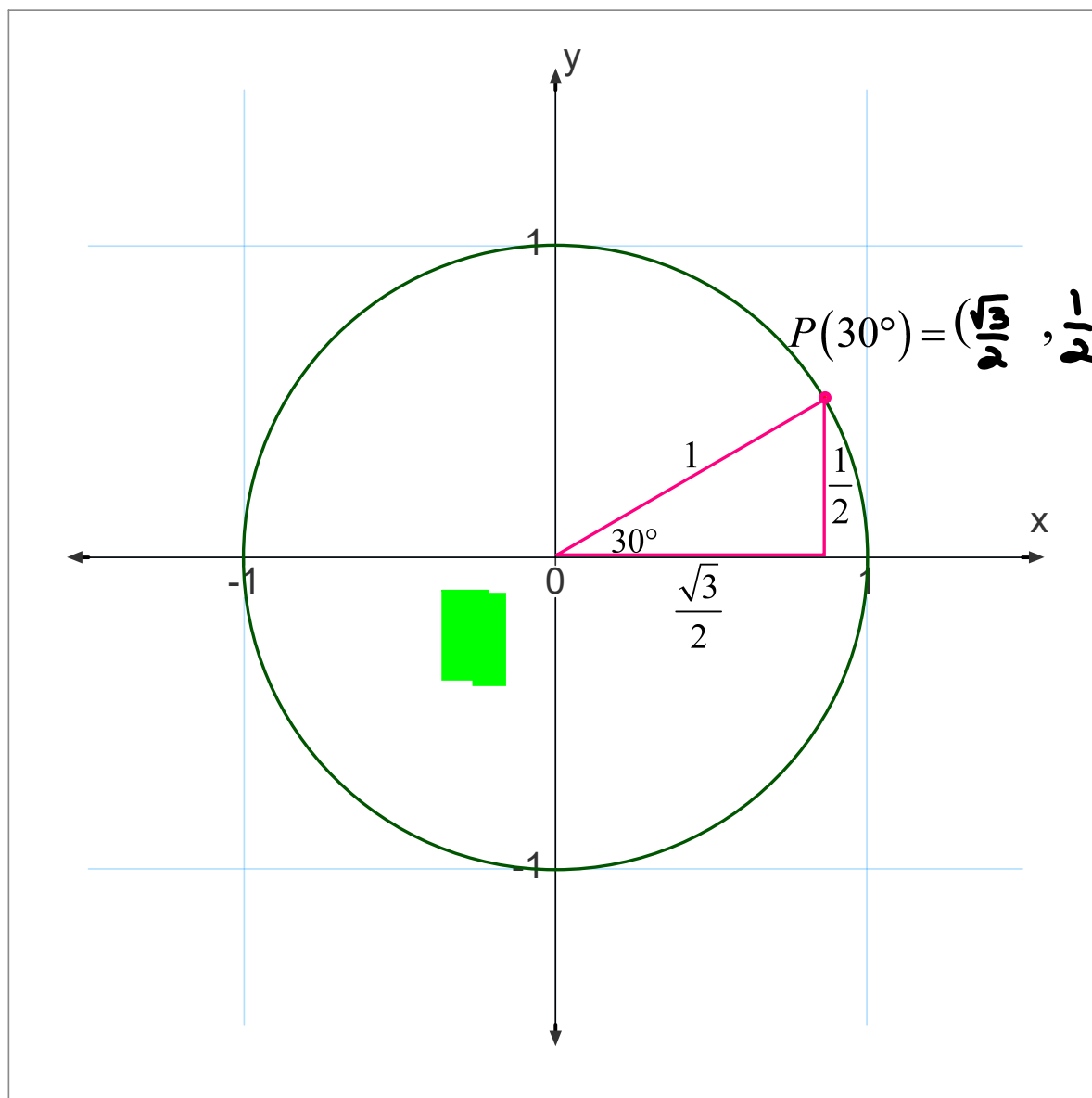
$$P(180^\circ) = (-1, 0)$$

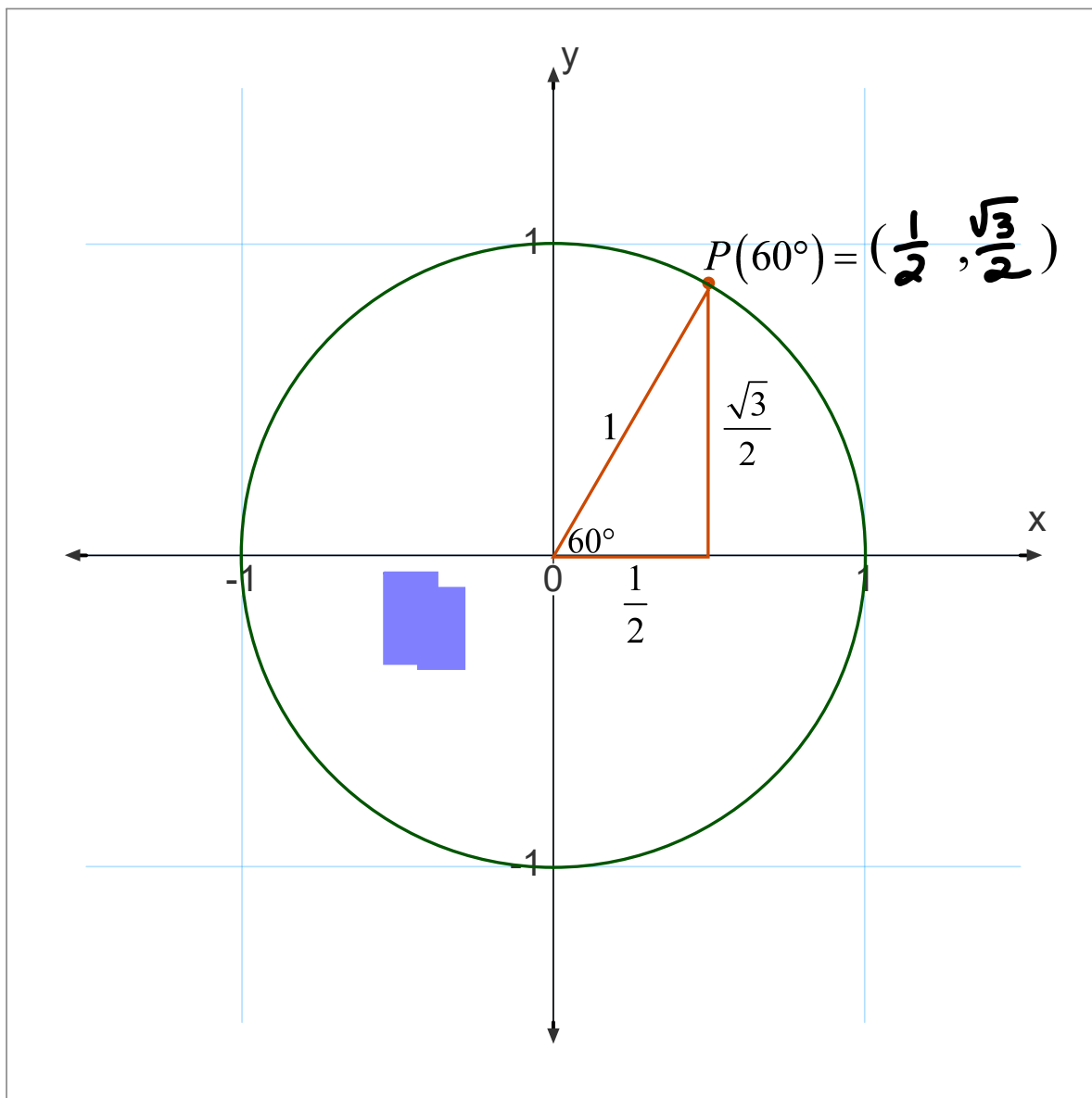
$$P(270^\circ) = (0, -1)$$

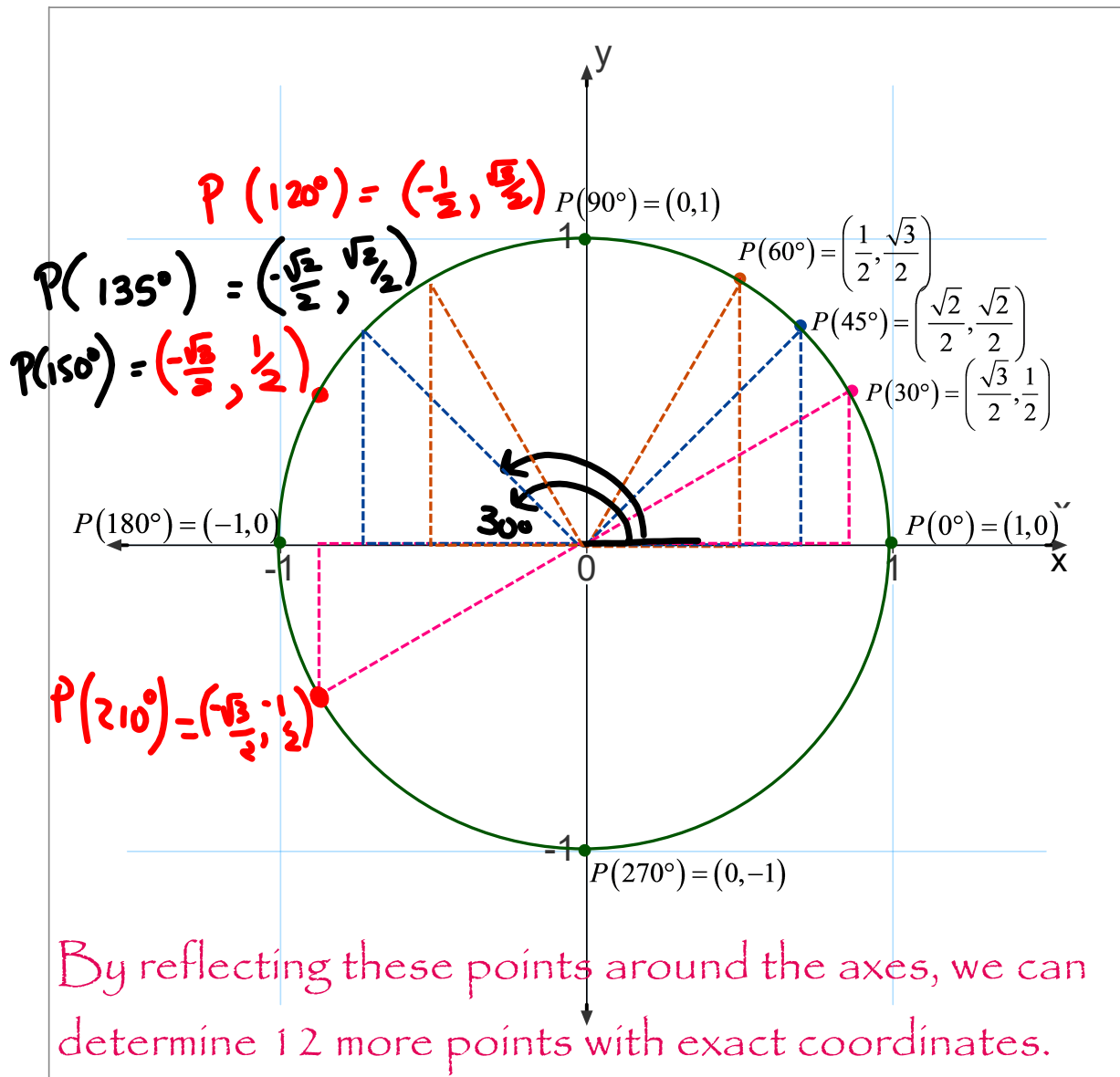
$$P(360^\circ) = (1, 0)$$



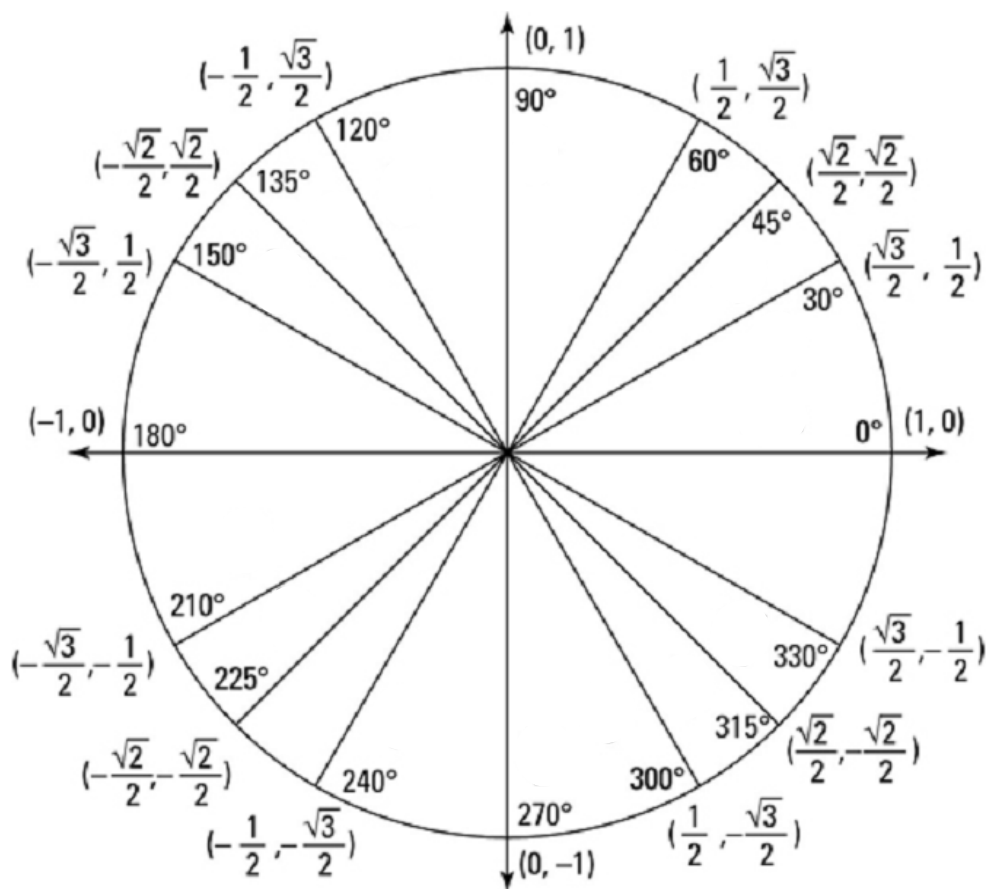








This circle, with all of the exact trigonometric points, is known as the **trigonometric circle**.



Angles that have the same terminal arm , but different rotations, are called coterminal .

They are created by going around the circle more than once, or by going in a clockwise ($-$) direction.

Examples: 135° and 495°

135° and -585°