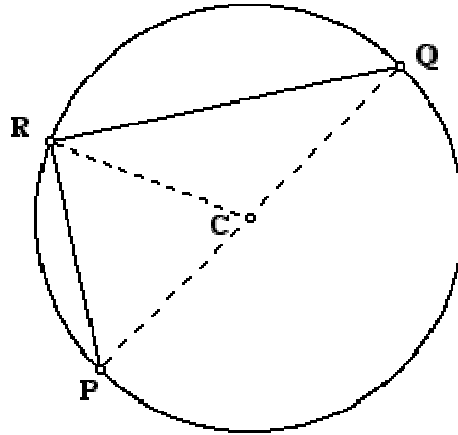


An angle inscribed in a semicircle is a right angle

This fact was known to the Babylonians and may have been one of the first results that Greek mathematicians proved using deductive logic (it is often attributed to Thales of Miletus, who probably lived from about 624 B.C.E. until about 548 B.C.E.).



(Source: <http://mathforum.org/library/drmath/view/54662.html>)

In this picture the angle is given by \mathbf{QRP} , and \mathbf{C} is the center of the circle. A proof of this result using vector geometry is given in the following file:

<http://math.ucr.edu/~res/math138A-2012/vector-geometry.pdf>