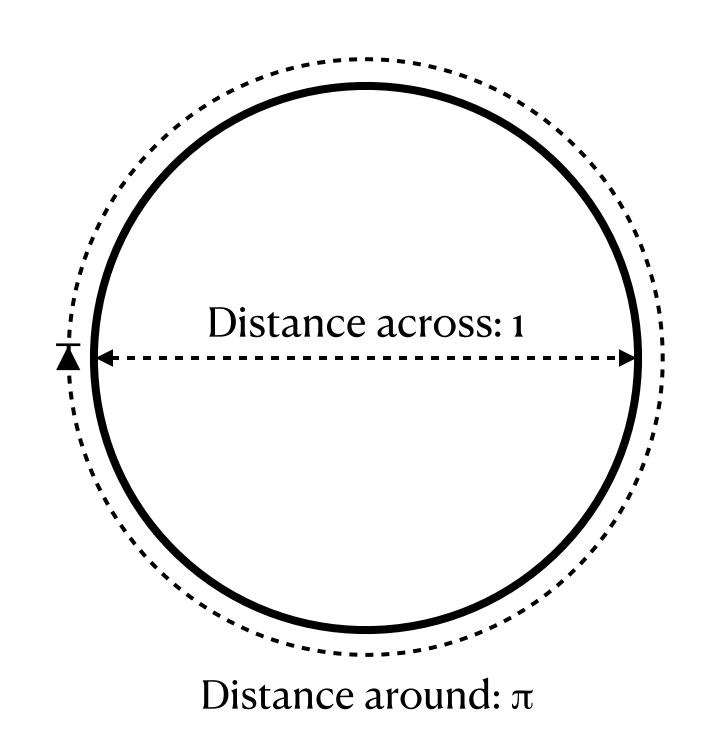


it's the ratio of a circle's circumference to its diameter... *any* circle

timeless classics of grade school:

circumference
$$C=2\pi r$$

area
$$A = \pi r^2$$



 π is about circles, pies are circular, what's not to like

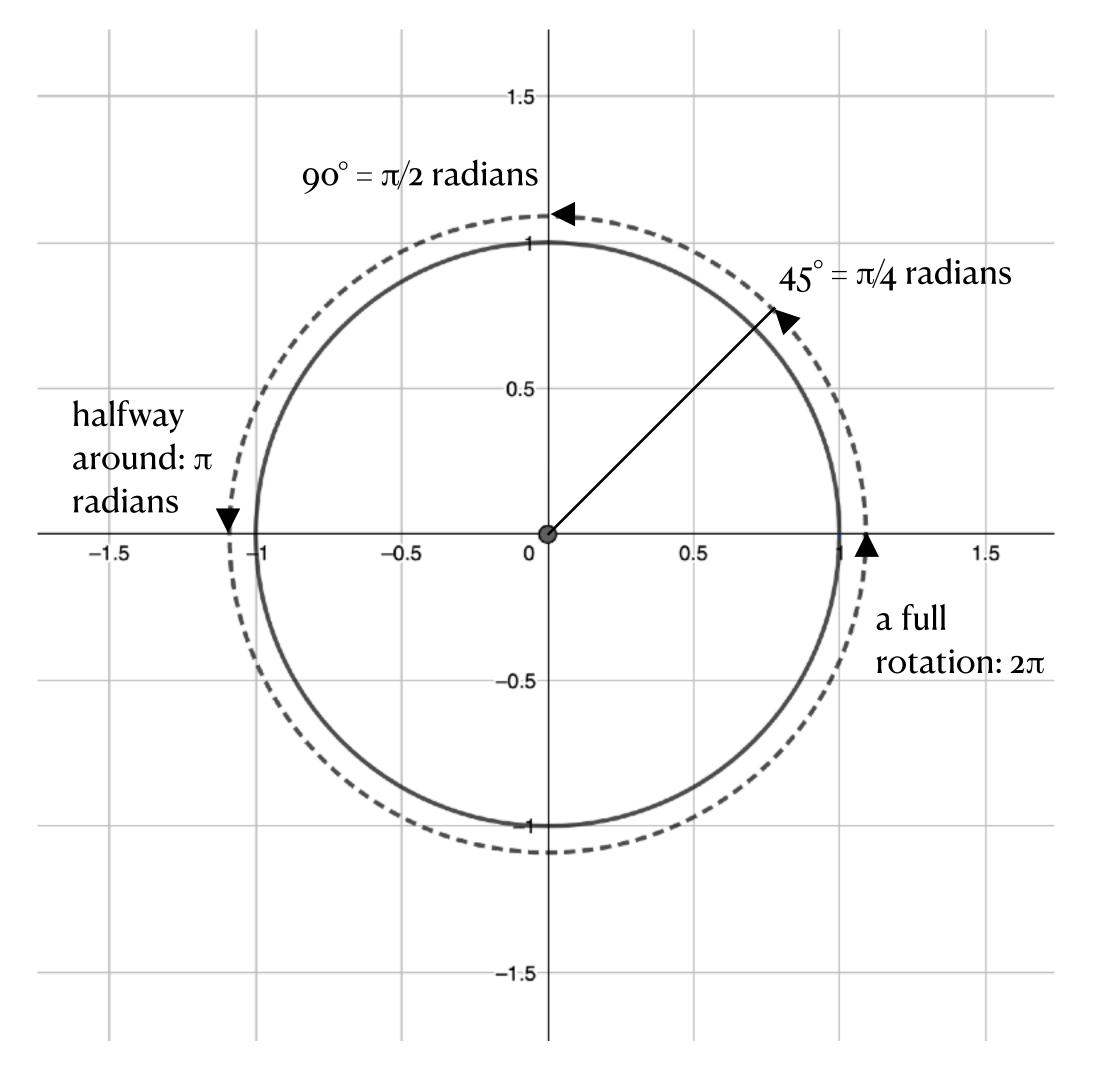
3.14159 and so forth

some people like to memorize hella digits of pi but to paraphrase NASA, 39 or 40 digits is enough to calculate the circumference of the known universe (whose radius is about 46 billion light years) with an error no greater than the diameter of a hydrogen atom

Radians: A Refresher

using π to measure angles

this is the "unit circle" because it has a radius of 1



you can express angles in terms of how far around the unit circle you are, starting on the right (the x axis)

so "all the way around," i.e. 360 degrees, is 2π radians, and smaller angles are some proportion of 2π

the diameter is 2, so the circumference is 2π