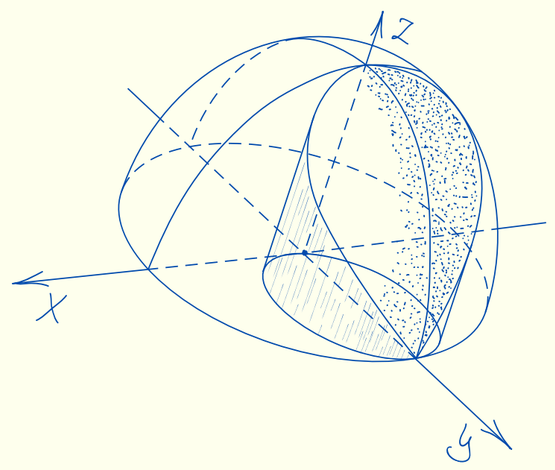
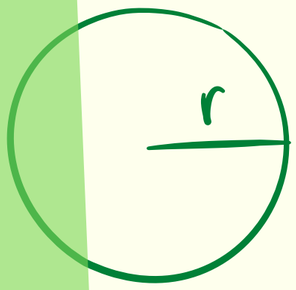
# Fun Facts About

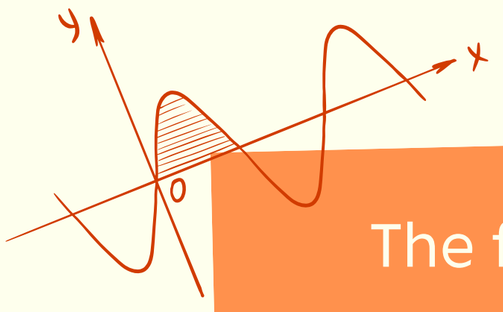



π is the **16th letter** of the Greek Alphabet.

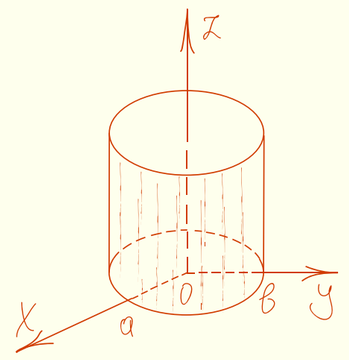
In Euclidian Geometry, all circles have the same **Circumference to Diameter ratio:** "Π"

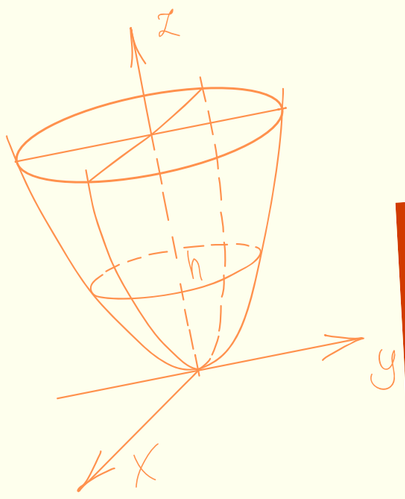



π is an **irrational number;** It cannot be written as the ratio of two integers and it has an infinite number of digits in its decimal representation.




The first **100 digits** of pi are **3.1415926535 8979323846 2643383279 5028841971 6939937510 5820974944 5923078164 0628620899 8628034825 3421170679**




**Pi Day** is also celebrated as the **International Day of Math.**


One of the ancient π calculations can be seen on the **Rhind Papyrus** (~ 1550 BCE);
*"Cut off 1/9 of a diameter and construct a square upon the remainder; this has the same area as the circle"*

Formula for computing the **n-th digit** of π

$$\sum_{n=0}^{\infty} \left( \frac{4}{8n+1} - \frac{2}{8n+4} - \frac{1}{8n+5} - \frac{1}{8n+6} \right) \left( \frac{1}{16} \right)^n$$

(in binary or base 16) without having to calculate all of the previous digits!