Week 2 Fri day Friday, April 9, 2021 4:09 PM

Computers can do basic operations: addition, subtraction, multiplication, and division

- -multiplication is shift and addition
- division is shift and subtraction - addition is more exclusive xor

Trig functions made by basic operations

IEEE Flogting Point Standard

32 bits total

sign exponent mantissa 1 bit 8 bits 23 bits

Decimal Representation

-floating point form is obtained by chopping or rainding the manifess

Floating point numbers are not real numbers
Floating point numbers are a subset of rational numbers