Ch 19 The exponential function (C)

Exponential expression

> 🗣️ The most common exponential expression is e^x, where e is the exponential contant, 2.71828...

Exponential Normal Rules

$e^a e^b = e^{a+b}$

$\dfrac{e^a}{e^b} = e^{a-b}$

$e^0 = 1$

$(e^a)^b = e^{ab}$

The exponential function and its graph

- Never negative

- when x = 0, y = 1

- x ⬆️ e^x ⬆️ → exponential growth