The cosh Function

Basics

The ***y* = cosh *x*** function is defined as

$$\cosh x = \frac{e^{x} + e^{-x}}{2}$$

- The other hyperbolic functions are

$$\sinh x = \frac{e^{x} - e^{-x}}{2}$$

$$\tanh = \frac{e^{x} - e^{-x}}{e^{x} + e^{-x}}$$

What they look like you can find out for yourself by activating the JAVA module below

- Here a few examples as how to write equations

cos(x)	**exp(x)**
cos(x*2)	**exp(1/x)**
cos(x/40)	**x^2**
cosh(x)	**1/x^2**
cosh(40*x)	**1/(x^3+10)**
	1/(exp(x-20)+1)