

The cosh Function

The $y = \cosh x$ function is defined as

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

The other hyperbolic functions are

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

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

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

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