Block COSH

The COSH block returns the hyperbolic cosine of its input.



Name	COSH
Function	fb0068
Inputs	1
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

1 Any signal x

Outputs

1 Hyperbolic cosine

Parameters

None

Strings

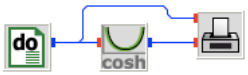
None

Description

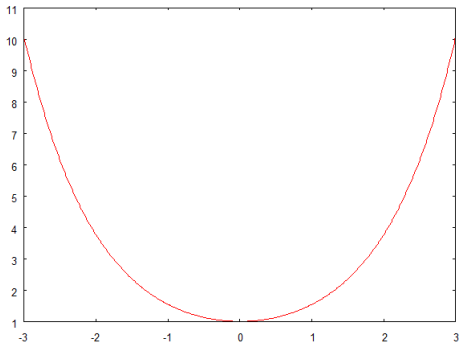
The hyperbolic cosine is defined as

$$\cosh(x) = \frac{\exp(x) + \exp(-x)}{2}$$

cosh.vseit



A DO block varies x from -3 to 3 in steps of 0.01. The COSH block calculates $\cosh(x)$ and the PLOT block displays the graph on screen.



See also Blocks COTH, CSCH, SCH, SINH, TANH.