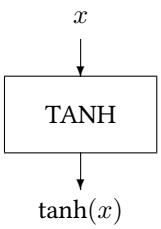
Block TANH

The TANH block returns the hyperbolic tangent of its input.





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

Inputs

1 Any signal x

Outputs

1 Hyperbolic tangent

Parameters

None

Strings

None

Description

The hyperbolic tangent is defined as

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

tanh.vseit



A DO block varies its output x from -3 to $+3$ in steps of 0.01. The TANH block calculates $\tanh(x)$ and the PLOT block displays the graph on screen.

