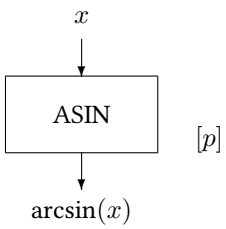
Block ASIN

The ASIN block returns the arcus sine of its input.





Name	ASIN
Function	fb0008
Inputs	1
Outputs	1
Parameters	$0 \ldots [1]$
Strings	0
Group	S

Inputs

1 Any value x with $|x| \leq 1$

Outputs

1 Arcus sine of x

Parameters

1 Degrees / radians switch p. If p is set to 0 (default) $\arcsin(x)$ is returned in degrees $(-90°, +90°)$. If p is set to 1 $\arcsin(x)$ is returned in radians $(-\pi/2, +\pi/2)$.

Strings

None

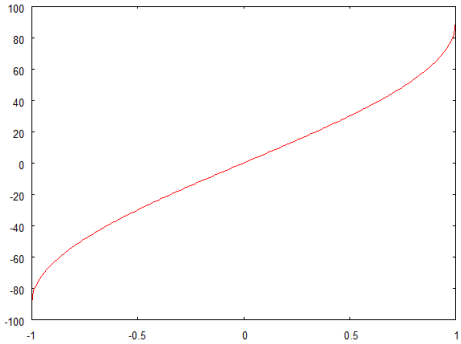
Remarks

If the amount of the input value $|x|$ exceeds one, the ASIN block displays a warning message and does no operation. If this happens more than once, the warning message is suppressed. At the end of a simulation run the total number of occurencies is displayed.

asin.vseit



A DO block varies x from -1 to 1 in steps of 0.01. The ASIN block calculates the arc sine of x and the PLOT block displays the graph on screen.



See also Blocks ACOS, ATAN, ACOT.