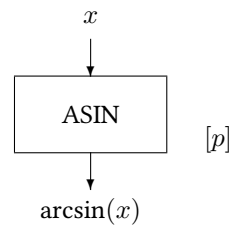


Block ASIN

The ASIN block returns the arcus sine of its input.



Name	ASIN
Function	fb0008
Inputs	1
Outputs	1
Parameters	0 ... [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 $(-90^\circ, +90^\circ)$. If p is set to 1 $\arcsin(x)$ is returned in radians $(-\pi/2, +\pi/2)$. |
|---|--|

Strings

None

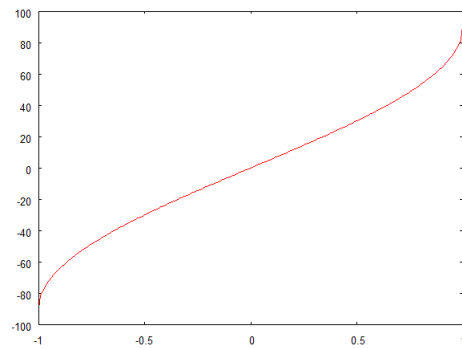
Remarks

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 occurrences 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](#).