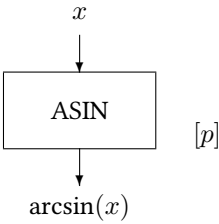


Block ASIN

The ASIN block returns the arcus sine of its input.



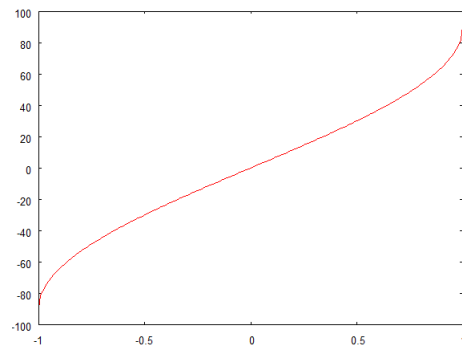
Name	ASIN
Function	fb0008
Inputs	1
Outputs	1
Parameters	0 . . . [1]
Strings	0
Group	S

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 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](#).