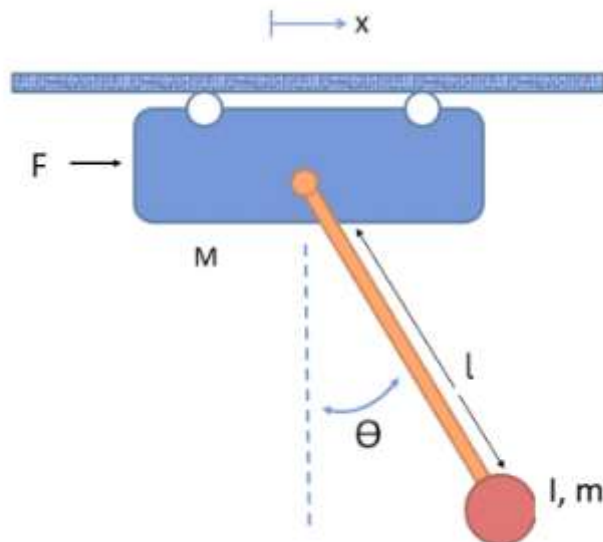
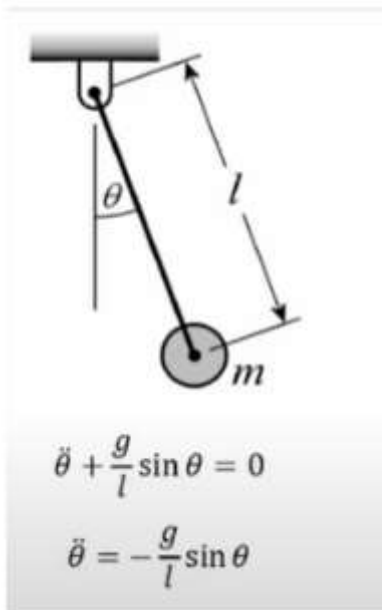
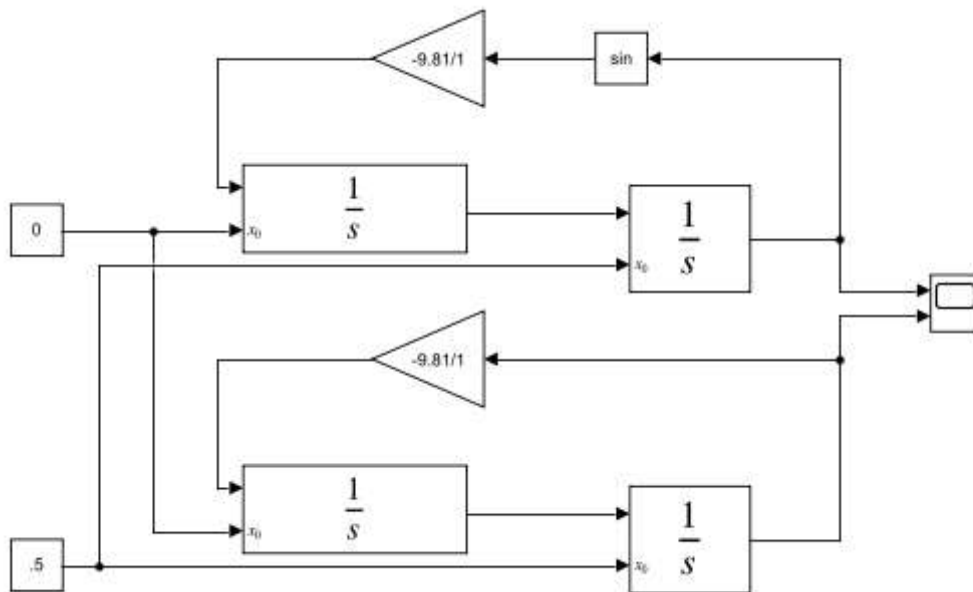


Pendulo_001

Details for Pendulo_001



Win10

28-Oct-2021 00:59:17

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- [3. Integrator Block Properties](#)

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Model - Pendulo_001

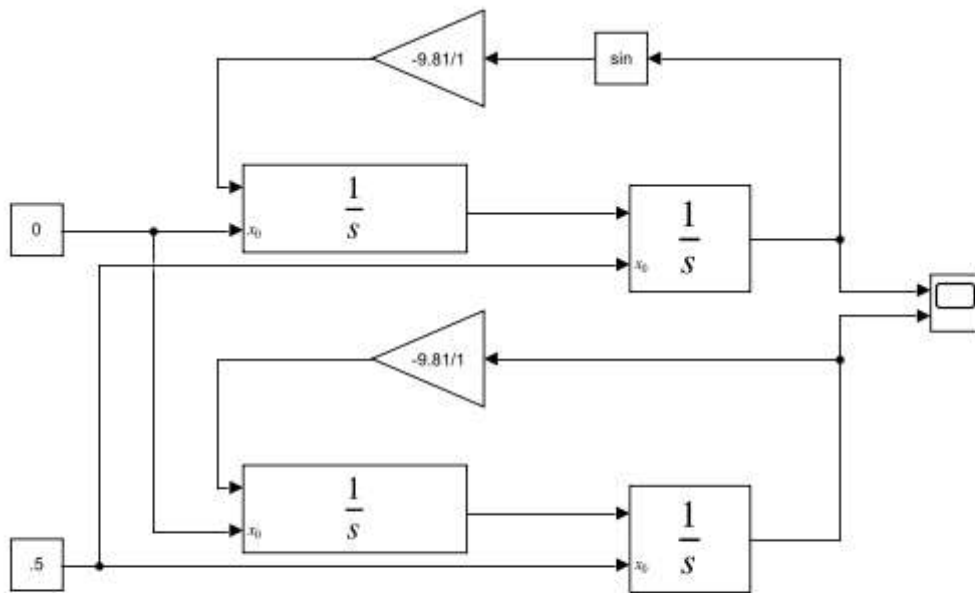
Full Model Hierarchy

1. [Pendulo_001](#)

Simulation Parameter	Value
Solver	VariableStepAuto
RelTol	1e-3
Refine	1
MaxOrder	5
ZeroCross	on

[\[more info\]](#).

System - Pendulo_001



$$\ddot{\theta} + \frac{g}{l} \sin \theta = 0$$

$$\ddot{\theta} = -\frac{g}{l} \sin \theta$$

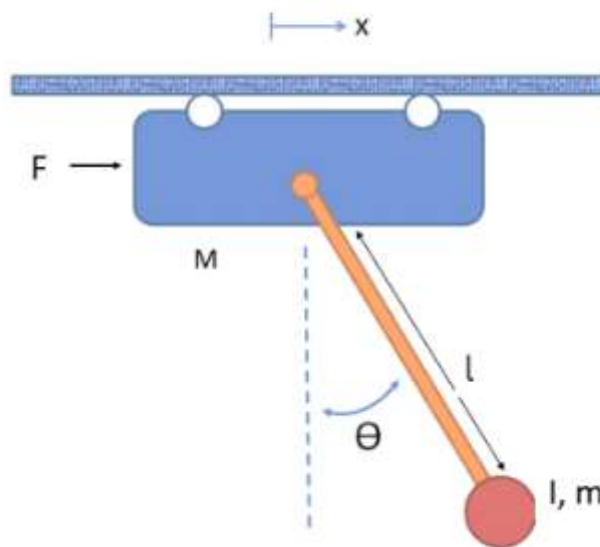


Tabela 1. Constant Block Properties

Name	Value	Out Data Type Str	Lock Scale	Sample Time	Frame Period
Constant	0	Inherit: Inherit from 'Constant value'	off	inf	inf
Constant1	.5	Inherit: Inherit from 'Constant value'	off	inf	inf

Tabela 2. Gain Block Properties

Name	Gain	Multiplication	Param Data Type Str	Out Data Type Str	Lock Scale	Rnd Meth	Saturate On Integer Overflow
Gain	-9.81/1	Element-wise(K.*u)	Inherit: Inherit via internal rule	Inherit: Inherit via internal rule	off	Floor	off

Name	Gain	Multiplication	Param Data Type Str	Out Data Type Str	Lock Scale	Rnd Meth	Saturate On Integer Overflow
Gain1	-9.81/1	Element-wise(K.*u)	Inherit: Inherit via internal rule	Inherit: Inherit via internal rule	off	Floor	off

Tabela 3. Integrator Block Properties

Name	External Reset	Initial Condition Source	Wrap State	Wrapped State Upper Value	Wrapped State Lower Value	Absolute Tolerance	Zero Cross	Continuous State Attributes
Integrator	none	external	off	pi	-pi	auto	on	"
Integrator1	none	external	off	pi	-pi	auto	on	"
Integrator2	none	external	off	pi	-pi	auto	on	"
Integrator3	none	external	off	pi	-pi	auto	on	"

Tabela 4. Trigonometry Block Properties

Name	Operator	Approximation Method	Number Of Iterations	Output Signal Type
Trigonometric Function	sin	None	11	auto

Appendix

Tabela 5. Block Type Count

BlockType	Count	Block Names
Integrator	4	Integrator , Integrator1 , Integrator2 , Integrator3
Gain	2	Gain , Gain1
Constant	2	Constant , Constant1
Trigonometry	1	Trigonometric Function
Scope	1	Scope

Tabela 6. Model Functions

Function Name	Parent Blocks	Calling character vector
pi	Integrator Integrator1 Integrator2 Integrator3 Integrator Integrator1 Integrator2 Integrator3	-pi -pi -pi -pi pi pi pi pi