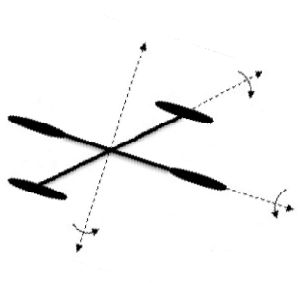
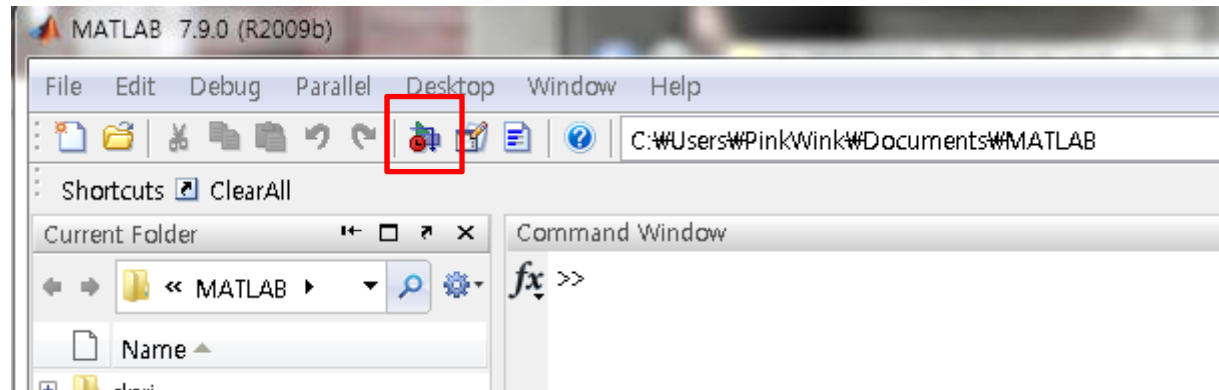

MATLAB

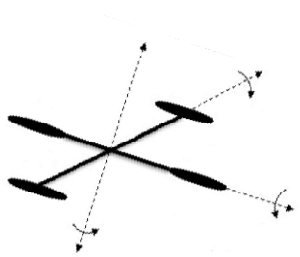
Simulink의 기초

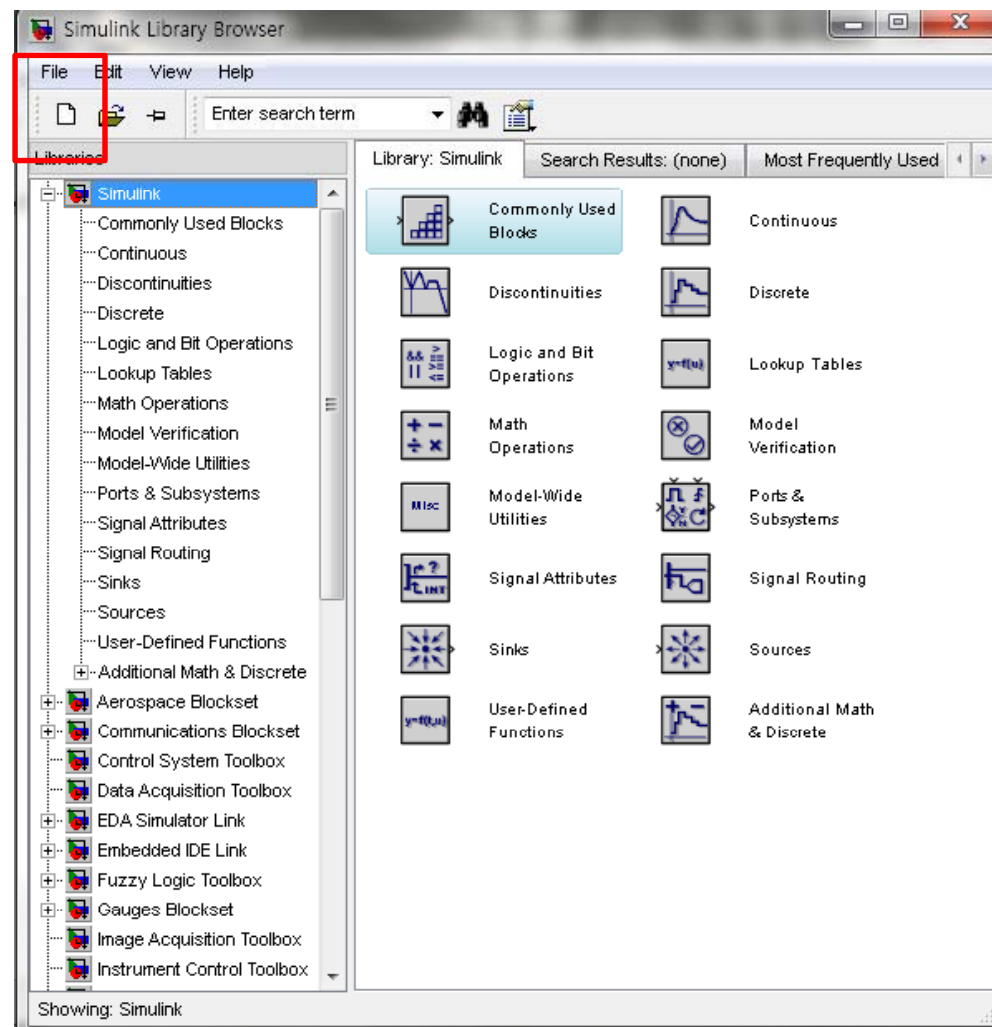


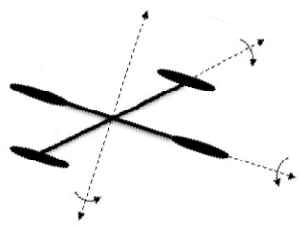
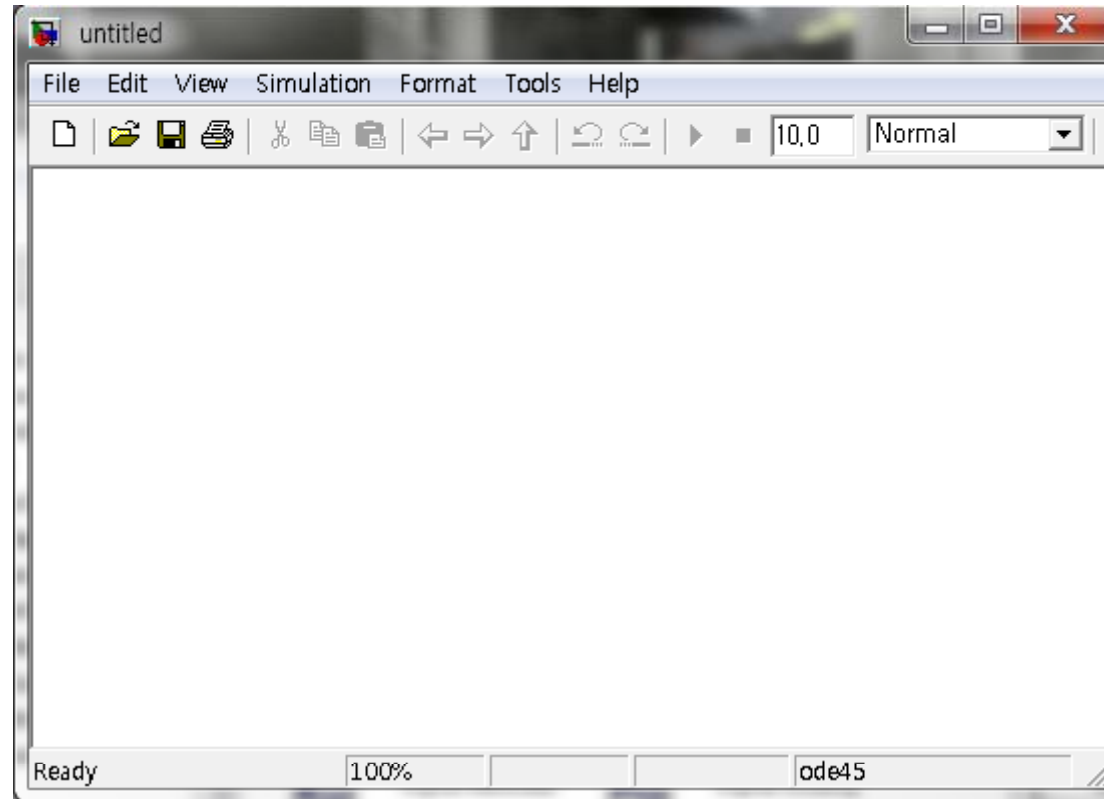
- Simulink 실행하기



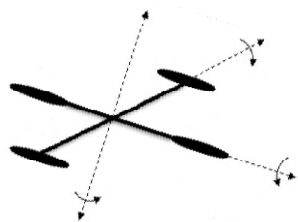
>> simulink







- Sources



Simulink Library Browser

File Edit View Help

Enter search term

Libraries

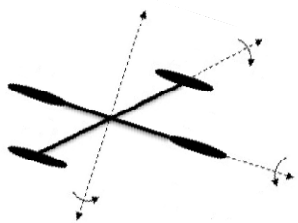
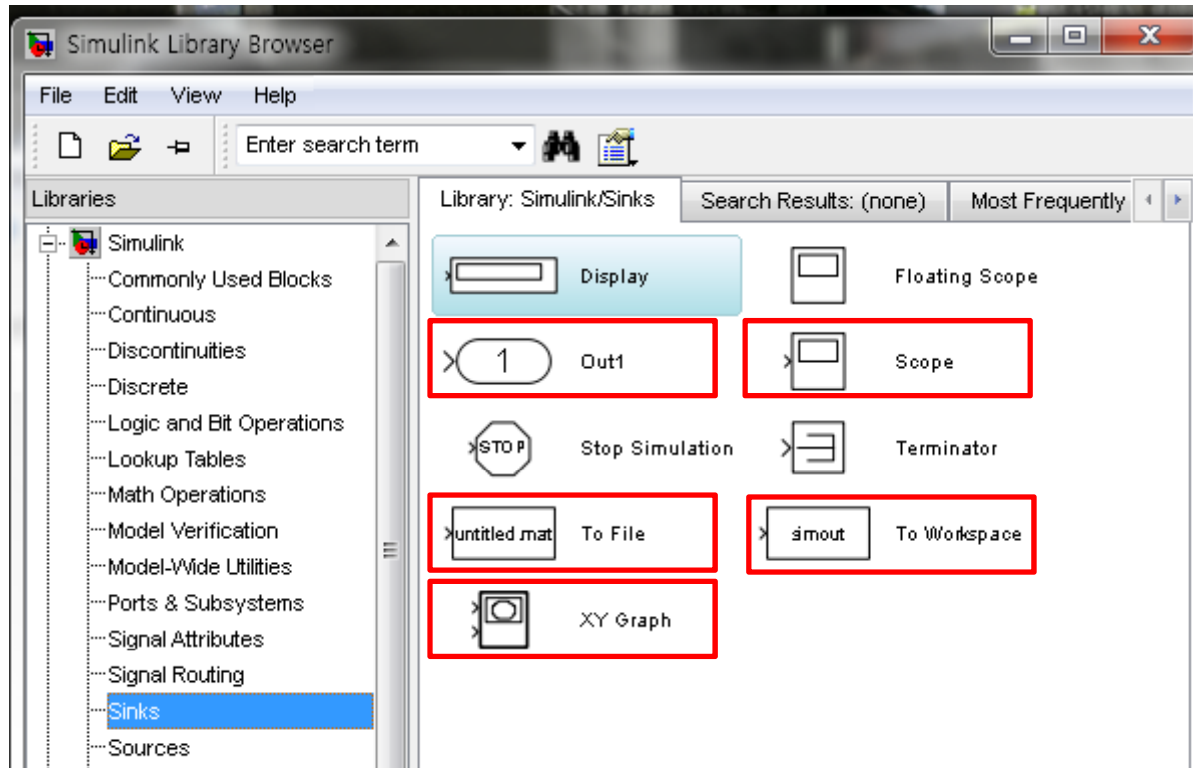
- Simulink
 - Commonly Used Blocks
 - Continuous
 - Discontinuities
 - Discrete
 - Logic and Bit Operations
 - Lookup Tables
 - Math Operations
 - Model Verification
 - Model-Wide Utilities
 - Ports & Subsystems
 - Signal Attributes
 - Signal Routing
 - Sinks
 - Sources**
 - User-Defined Functions
 - Additional Math & Discrete
- Aerospace Blockset
- Communications Blockset
- Control System Toolbox
- Data Acquisition Toolbox
- EDA Simulator Link
- Embedded IDE Link
- Fuzzy Logic Toolbox
- Gauges Blockset
- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox

Library: Simulink/Sources Search Results: (none) Most Frequen

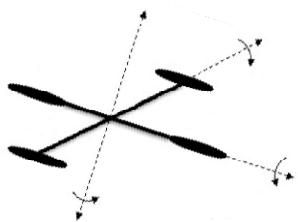
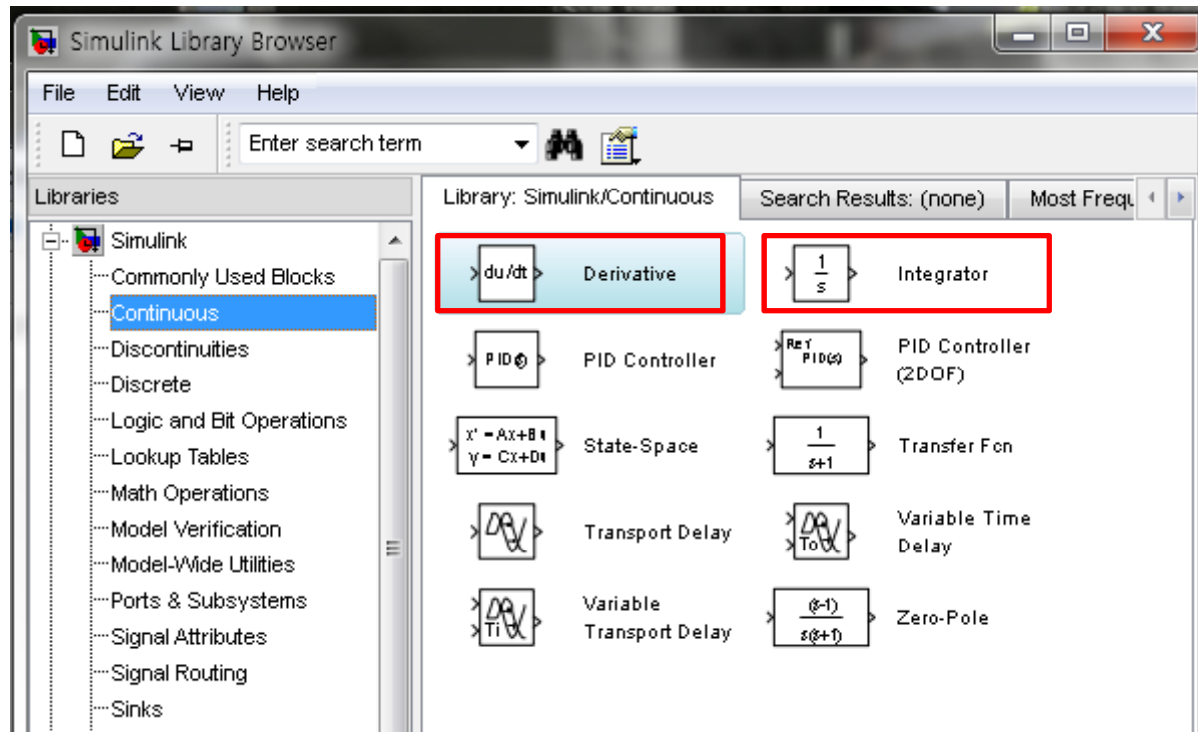
Band-Limited White Noise	Chirp Signal
Clock	Constant
Counter Free-Running	Counter Limited
Digital Clock	Enumerated Constant
From File	From Workspace
Ground	In1
Pulse Generator	Ramp
Random Number	Repeating Sequence
Repeating Sequence Interpol...	Repeating Sequence Stair
Signal Builder	Signal Generator
Sine Wave	Step
Uniform Random Number	

Showing: Simulink/Sources

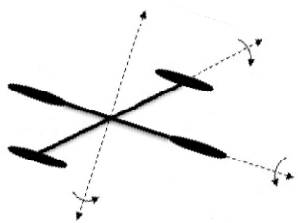
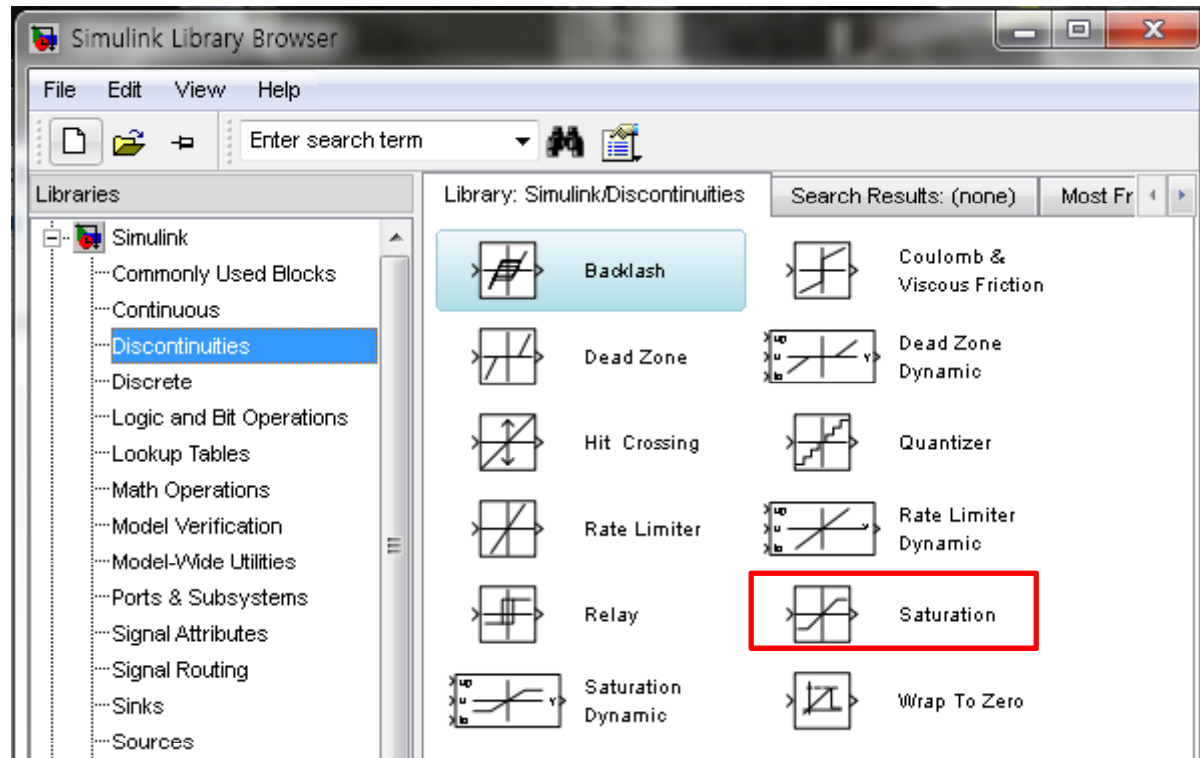
- Sinks



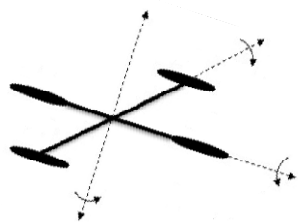
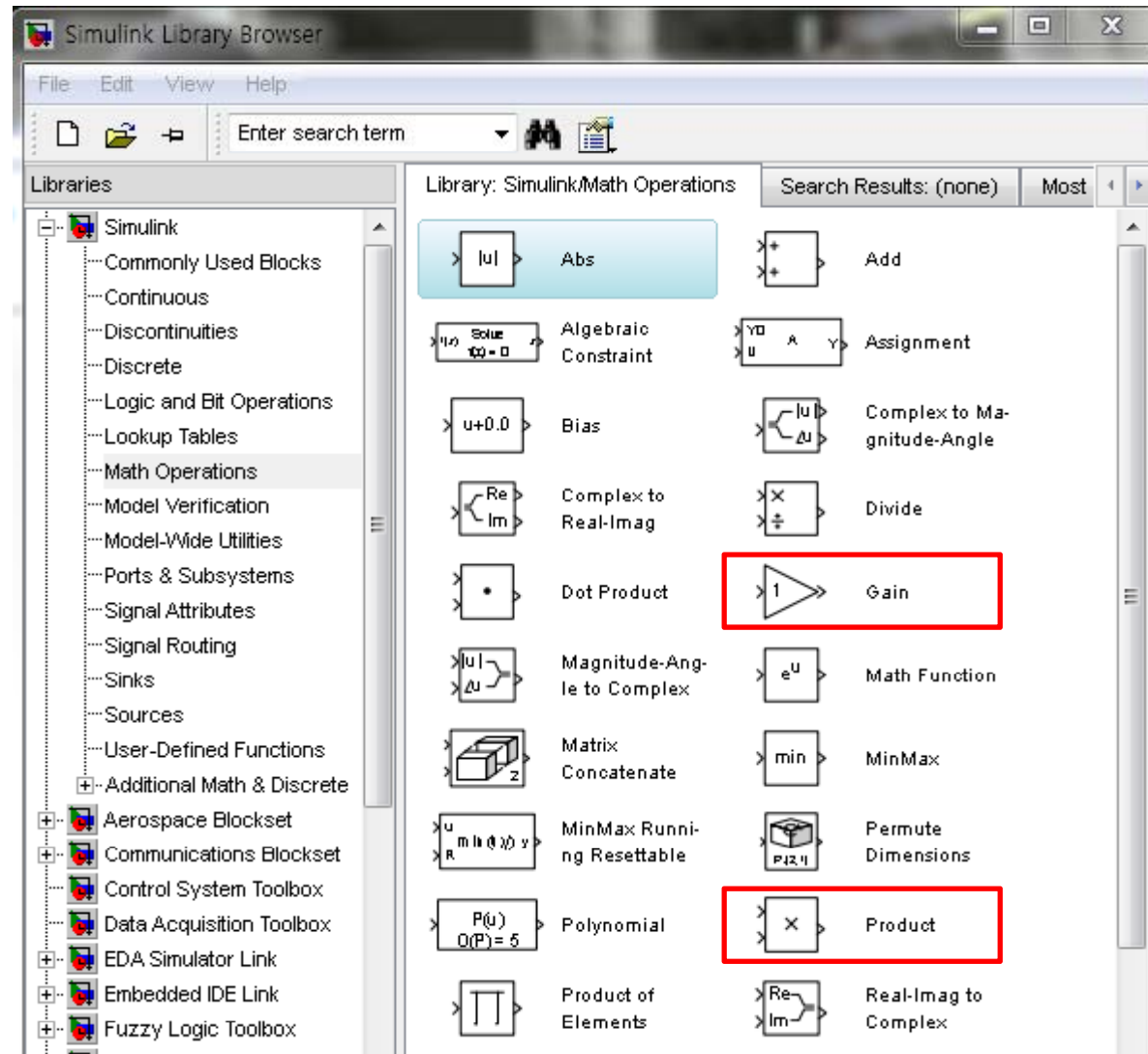
- Continuous



- Discontinuities



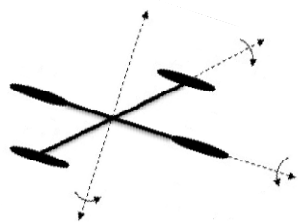
- Math Operation



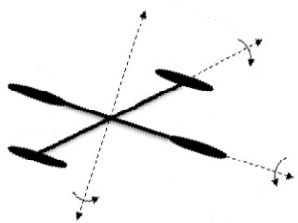
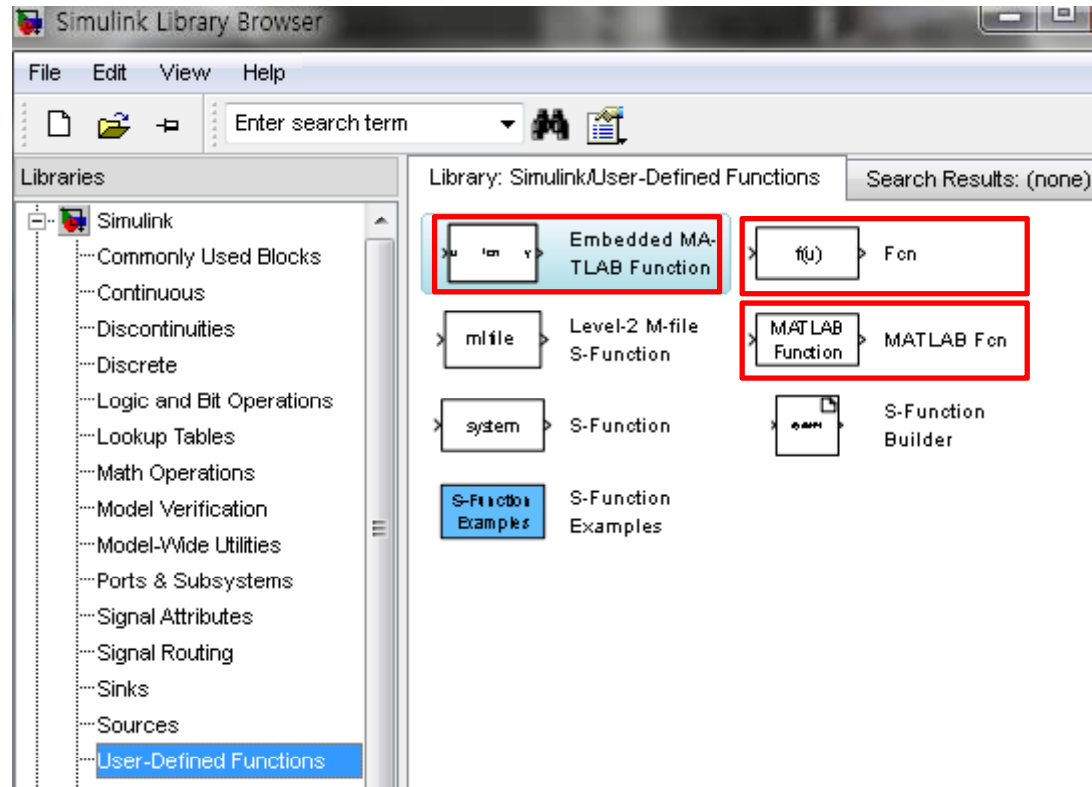


The screenshot shows the Simulink Math Operations library. The left pane lists various toolboxes, with 'Additional Math & Discrete' expanded. The main pane displays a grid of blocks. Three blocks are highlighted with red rectangles: 'Sign', 'Sine Wave Function', and 'Sum'.

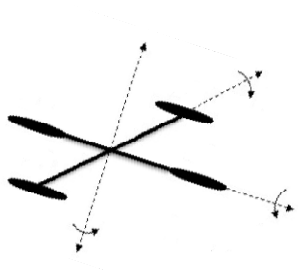
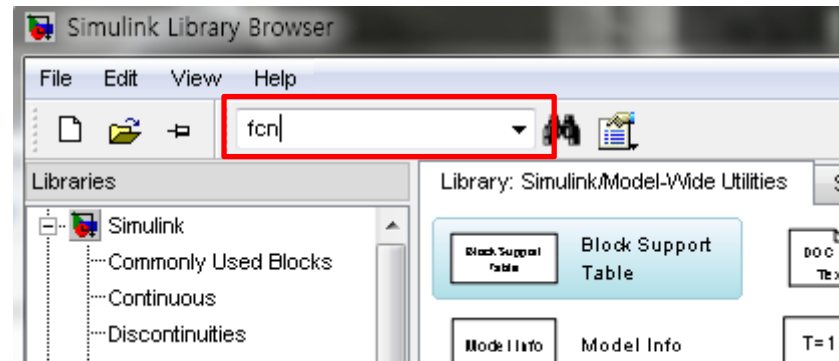
Block Icon	Block Name	Block Icon	Block Name
	MinMax Running Resettable		Permute Dimensions
	Polynomial		Product
	Product of Elements		Real-Imag to Complex
	Reshape		Rounding Function
	Sign		Sine Wave Function
	Slider Gain		Squeeze
	Subtract		Sum
	Sum of Elements		Trigonometric Function
	Unary Minus		Vector Concatenate
	Weighted Sample Time Math		



- User-Defined Functions



- 블록 찾기





fcn

Simulink/Additional Math & Discrete/Additional Discrete Found: 'fcn'

Simulink 9

- Transfer Fcn Direct Form II
- Transfer Fcn Direct Form II Ti...
- Transfer Fcn $\frac{1}{z+1}$
- Discrete Transfer Fcn $\frac{1}{z+0.5}$
- Transfer Fcn First Order $\frac{0.05z}{z-0.95}$
- Transfer Fcn Lead or Lag $\frac{z-0.75}{z-0.95}$
- Transfer Fcn Real Zero $\frac{z-0.75}{z}$
- Fcn $f(u)$
- MATLAB Fcn

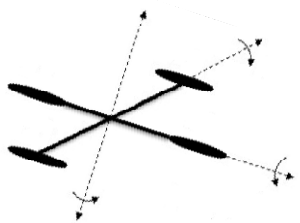
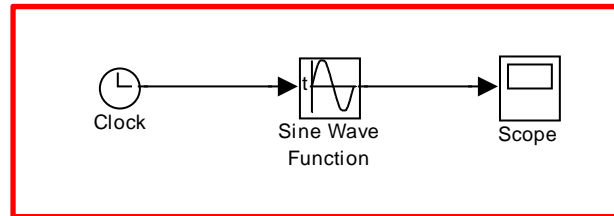
Simulink Extras 4

- Discrete Transf-er Fcn (with in... $\frac{1}{z+0.5}$
- Discrete Transf-er Fcn (with in... $\frac{1}{z+0.5}$
- Transfer Fcn (wi-th initial outp... $\frac{1}{z+1}$
- Transfer Fcn (wi-th initial states) $\frac{1}{z+1}$

Target Support Package 1

- Trig Fcn IQN

- 간단한 예제 1)





Function Block Parameters: Sine Wave Function

Sine Wave

Output a sine wave:

$$O(t) = \text{Amp} \cdot \sin(\text{Freq} \cdot t + \text{Phase}) + \text{Bias}$$

Sine type determines the computational technique used. The parameters in the two types are related through:

Samples per period = $2 \cdot \pi / (\text{Frequency} \cdot \text{Sample time})$

Number of offset samples = $\text{Phase} \cdot \text{Samples per period} / (2 \cdot \pi)$

Use the sample-based sine type if numerical problems due to running for large times (e.g. overflow in absolute time) occur.

Parameters

Sine type: Time based

Time (t): Use external signal

Amplitude: 1

Bias: 0

Frequency (rad/sec): 1

Phase (rad): 0

OK Cancel Help Apply

