

# Simulink Basics Quiz 2

Total points 30/30

The respondent's email (amlali98eg@gmail.com) was recorded on submission of this form.

✓ What is the role of a Display Block in Simulink? \*

1/1

- ☐ a) To modify the amplitude of signals.
- ☒ b) To visualize results by displaying signals. ✓
- ☐ c) To divide input signals.
- ☐ d) To perform element-wise multiplication.

✓ Which Simulink block would you use to multiply two input signals? \*

1/1

- ☒ a) Product Block ✓
- ☐ b) Sum Block
- ☐ c) Gain Block
- ☐ d) Constant Block



✓ What does the disp function do in MATLAB? \*

1/1

- ☒ a) Displays the contents of a variable.
- ☐ b) Performs a mathematical operation.
- ☐ c) Defines a new variable.
- ☐ d) Closes a figure.



✓ In Simulink, how is the Gain Block used to modify a signal? \*

1/1

- ☐ a) By summing input signals.
- ☐ b) By dividing input signals.
- ☒ c) By multiplying input signals by a constant.
- ☐ d) By calculating the absolute value of input signals.



✓ Describe the function of a Sum Block in Simulink. \*

1/1

- ☒ a) To add or subtract input signals.
- ☐ b) To multiply input signals.
- ☐ c) To generate a constant signal.
- ☐ d) To divide input signals.



✓ What does the plot function do in MATLAB? \*

1/1

- ☐ a) Display an image.
- ☐ b) Create a bar chart.
- ☒ c) Generate a 2D line plot.
- ☐ d) Perform a matrix multiplication.



✓ Why is a Constant Block important in a Simulink model? \*

1/1

- ☐ a) To generate varying signals.
- ☐ b) To add input signals.
- ☐ c) To visualize results.
- ☒ d) To generate a constant signal.



✓ In Simulink, when might you use a Constant Block with a value of 42? \*

1/1

- ☐ a) To visualize results.
- ☐ b) To add input signals.
- ☒ c) To generate a constant signal.
- ☐ d) To multiply input signals.



✓ Explain the primary function of the Product Block in Simulink. \*

1/1

- ☐ a) To calculate the square root of input signals.
- ☐ b) To generate constant signals.
- ☐ c) To add or subtract input signals.
- ☒ d) To multiply input signals.



✓ How does the Display Block assist in visualizing results in a Simulink model?

\*1/1

- ☐ a) By multiplying input signals.
- ☐ b) By performing element-wise multiplication.
- ☐ c) By adding input signals.
- ☒ d) By displaying signals to visualize results.



✓ How can you scale a signal using Simulink's Gain Block? \*

1/1

- ☒ a) By performing element-wise multiplication.
- ☐ b) By adding the input signals.
- ☐ c) By dividing the input signals.
- ☐ d) By calculating the square root.



✓ When might you use a Sum Block in a Simulink model? \* 1/1

- ☐ a) To divide input signals.
- ☐ b) To calculate the square root.
- ☒ c) To add or subtract input signals. ✓
- ☐ d) To multiply input signals.

✓ How does the Gain Block modify the amplitude of a signal in Simulink? \* 1/1

- ☐ a) By summing the input signals.
- ☒ b) By multiplying input signals by a constant factor. ✓
- ☐ c) By dividing the input signals.
- ☐ d) By calculating the square root of the input signals.

✓ What is the result of `sqrt(16)` in MATLAB? \* 1/1

- ☐ a) 8
- ☒ b) 4 ✓
- ☐ c) 2
- ☐ d) 0



✓ In a Simulink model, what does the Sum Block do when connected to multiple input signals? \*1/1

- ☐ a) Divides input signals.
- ☐ b) Multiplies input signals.
- ☒ c) Adds or subtracts input signals. ✓
- ☐ d) Performs the square root of input signals.

✓ How is a Display Block utilized in Simulink to present results? \* 1/1

- ☐ a) By adding input signals.
- ☐ b) By performing element-wise multiplication.
- ☐ c) By dividing input signals.
- ☒ d) By visualizing results through signal display. ✓

✓ When should you use the Gain Block in Simulink? \* 1/1

- ☐ a) To calculate the square root of input signals.
- ☐ b) To visualize results.
- ☒ c) To modify the amplitude of signals by multiplying them by a constant. ✓
- ☐ d) To divide input signals.



✓ Which MATLAB function is used for plotting 2D graphs? \*

1/1

- ☐ a) figure
- ☒ b) plot
- ☐ c) bar
- ☐ d) scatter



✓ What is the result of  $2 + 3 * 4$  in MATLAB? \*

1/1

- ☐ a) 20
- ☐ b) 18
- ☒ c) 14
- ☐ d) 14.5



✓ In MATLAB, what function is used to round a number to the nearest integer?

\*1/1

- ☒ a) round
- ☐ b) ceil
- ☐ c) floor
- ☐ d) abs



✓ What is the purpose of a Product Block in Simulink? \*

1/1

- ☒ a) Multiply input signals element-wise.
- ☐ b) Divide input signals.
- ☐ c) Add input signals.
- ☐ d) Calculate the square root.



✓ What is the primary role of the Sum Block in a Simulink model? \*

1/1

- ☐ a) To multiply input signals.
- ☐ b) To generate constant signals.
- ☒ c) To add or subtract input signals.
- ☐ d) To calculate the square root of input signals.



✓ In Simulink, when is a Constant Block with a value of 1 frequently used? \*

1/1

- ☐ a) To multiply input signals.
- ☒ b) To generate a constant signal.
- ☐ c) To divide input signals.
- ☐ d) To add or subtract input signals.





✓ What is the command to clear all variables in the MATLAB workspace? \* 1/1

- ☒ a) clear all
- ☐ b) clearvars
- ☐ c) clc
- ☐ d) close all



✓ How do you create a row vector of numbers from 1 to 10 in MATLAB? \* 1/1

- ☐ a) linspace(1, 10, 10)
- ☒ b) 1:10
- ☐ c) 1 to 10
- ☐ d) vector(1, 10)



✓ Which operator is used for element-wise multiplication of two arrays in MATLAB? \*1/1

- ☐ a) \*
- ☐ b) .^
- ☒ c) .\*
- ☐ d) /



✓ What operation does the Product Block perform on its input signals in Simulink? \*1/1

- ☐ a) It adds input signals.
- ☐ b) It divides input signals.
- ☒ c) It multiplies input signals element-wise. ✓
- ☐ d) It calculates the square root of input signals.

✓ In MATLAB, what does the pi constant represent? \* 1/1

- ☐ a) The golden ratio.
- ☐ b) The speed of light.
- ☒ c) The mathematical constant pi ( $\pi$ ). ✓
- ☐ d) The imaginary unit.

✓ Explain the purpose of a Constant Block in Simulink. \* 1/1

- ☐ a) It multiplies input signals.
- ☒ b) It generates a constant signal. ✓
- ☐ c) It calculates the absolute value of input signals.
- ☐ d) It performs the square root of input signals.



✓ What is the significance of using a Display Block in a Simulink model? \* 1/1

- ☐ a) To add or subtract input signals.
- ☐ b) To divide input signals.
- ☐ c) To generate constant signals.
- ☒ d) To visualize results by displaying signals.



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