Lab Assignment

Imports, Functions and Variables

A screen shot of a computer program

Description automatically generated

A. Impulse Response

* **Problem A.1**

Code:

A computer screen with colorful text

Description automatically generated

Results:

* **Problem A.2**

Code:

A computer screen with colorful text

Description automatically generated

Results:

* **Problem A.3**

Code:

A computer screen shot of a black screen

Description automatically generated

Results:

B. Convolution.

* **Problem B.1**

Code:

A screen shot of a computer code

Description automatically generated

Results:

* **Problem B.2**

Code:

A screen shot of a computer program

Description automatically generated

Results:

* **Problem B.3**

Code:

A screen shot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generated

A screen shot of a computer program

Description automatically generated

Results:

C. System Behavior and Stability.

* **Problem C.1**

Code:

A screen shot of a computer program

Description automatically generated

Results:

* **Problem C.2**

Results:

A screenshot of a computer

Description automatically generated

* **Problem C.3**

Code:

A screen shot of a computer code

Description automatically generated

Results:

D. Discussion.

* **Problem D.1**

Code:

Results:

* **Problem D.2**

Results: When two signals are convolved, the resulting signal's duration is equal to the sum of the durations of the original functions.