

MATLAB Sample runs:

Sample run 1:

Enter the sampling frequency: 1000

Enter the starting time scale: 0

Enter the ending time scale: 5

Enter the number of break points: 4

Enter breakpoint no. 1:

1

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 3

Enter the greatest power: 2

Enter the amplitude of X to the power 1: 0

Enter the amplitude of X to the power 2: 1

enter intercept: 0

Enter breakpoint no. 2:

2

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 4

Enter amplitude: 1

enter exponent: -1

Enter breakpoint no. 3:

3

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 2

Enter slope: 1

enter intercept: 0

Enter breakpoint no. 4:

4

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 5

Enter amplitude: 1

Enter frequency: 1

Enter phase: 0

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 1

Enter amplitude: 1

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 1

input Amplitude scale: 2

Do you want to end (true to end , false to apply more changing to the signal): false

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 2

Do you want to end (true to end , false to apply more changing to the signal): false

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 3

input shift value: 2

Do you want to end (true to end , false to apply more changing to the signal): false

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 4

input expansion value: 3

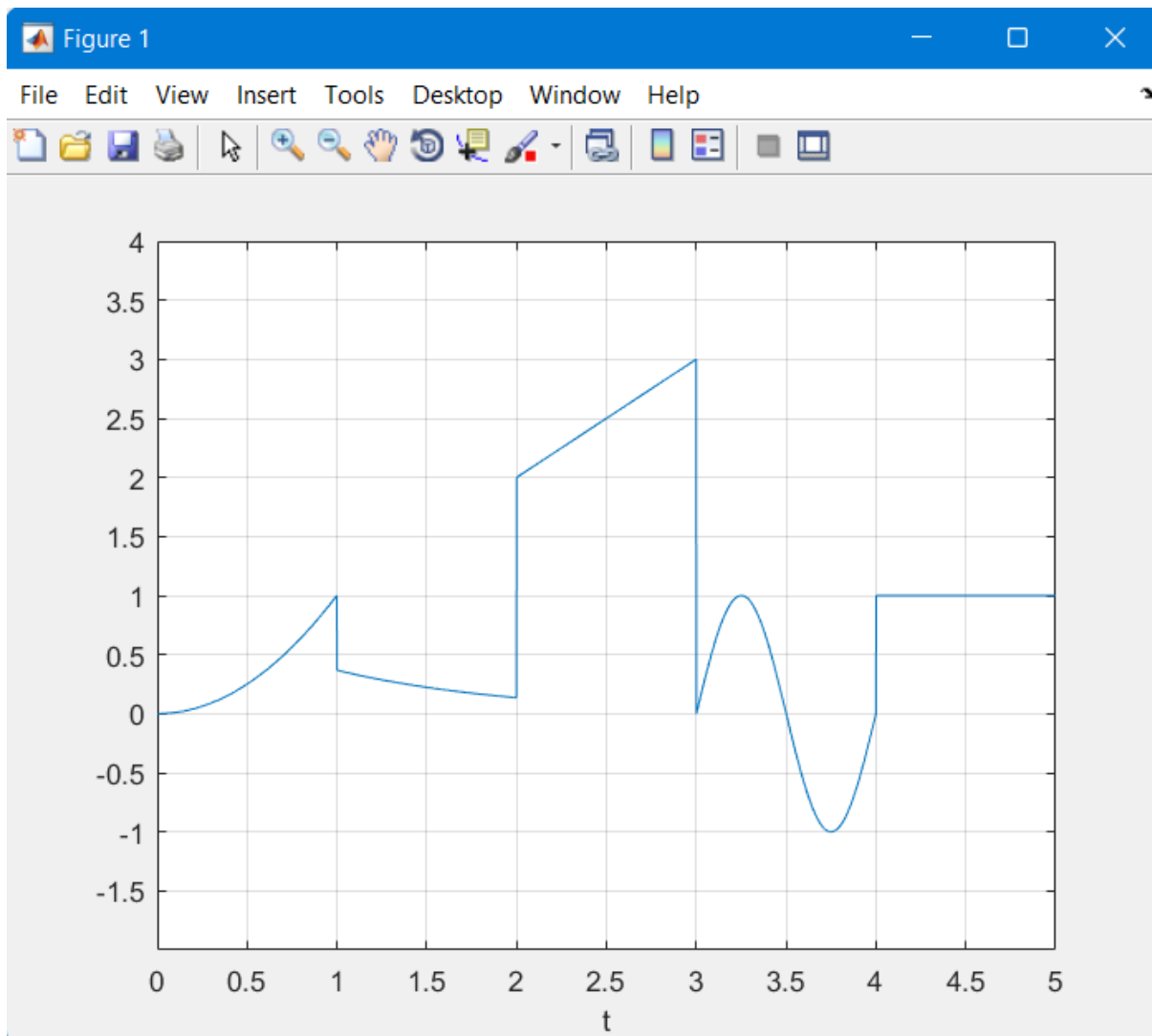
Do you want to end (true to end , false to apply more changing to the signal): false

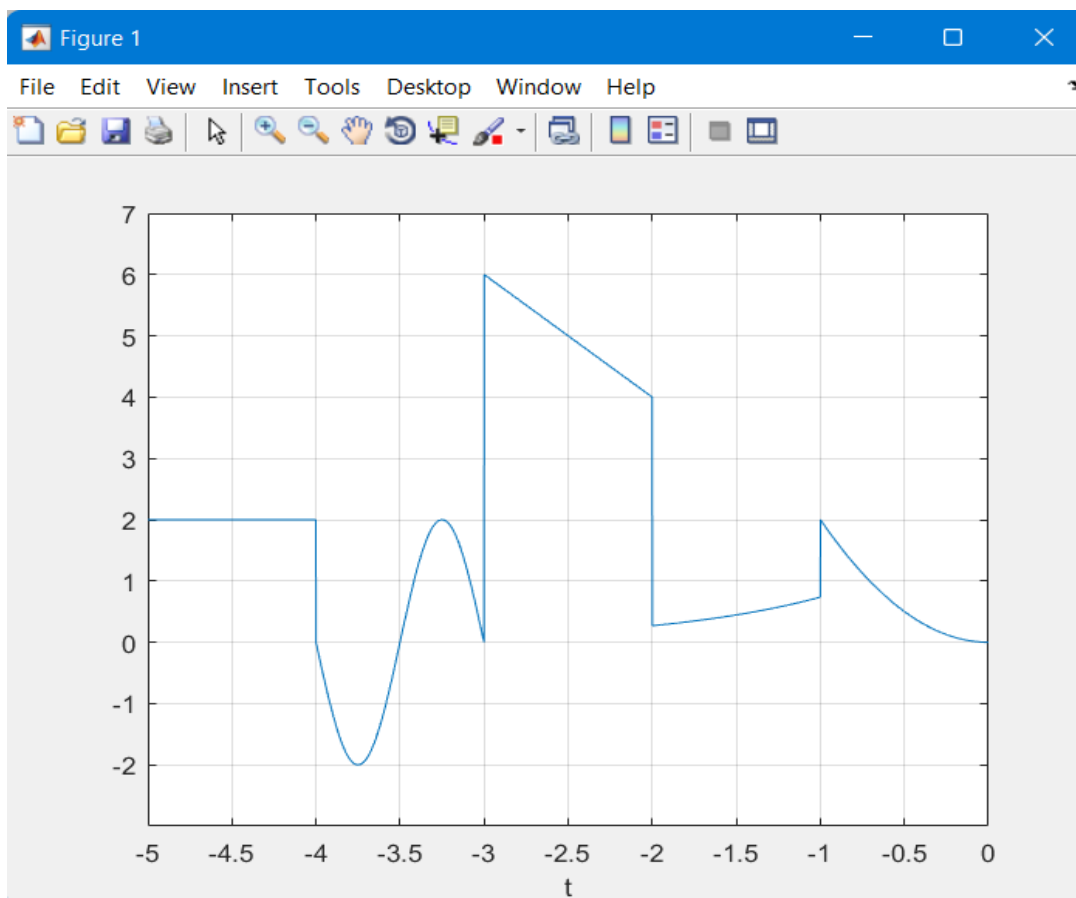
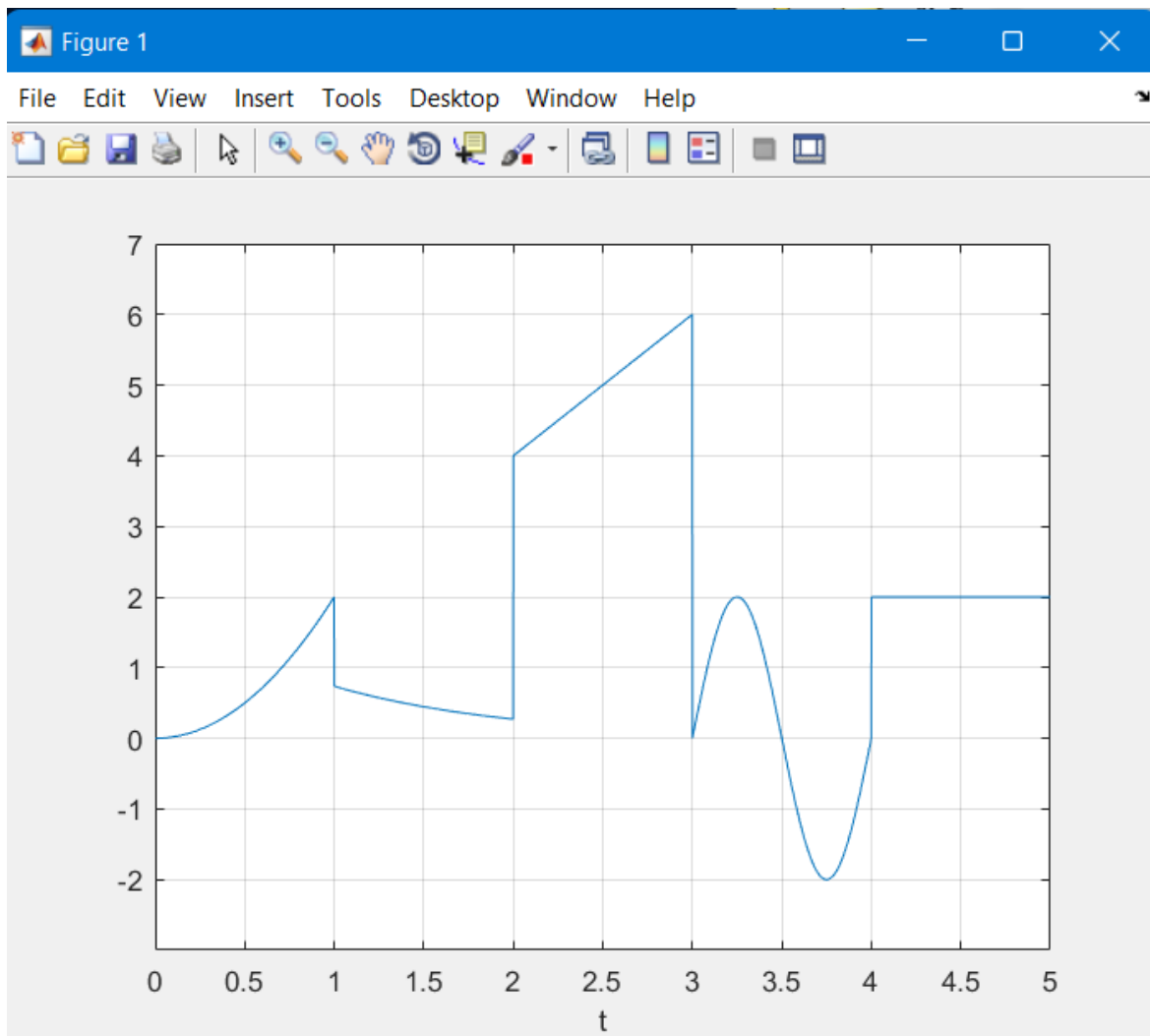
Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 5

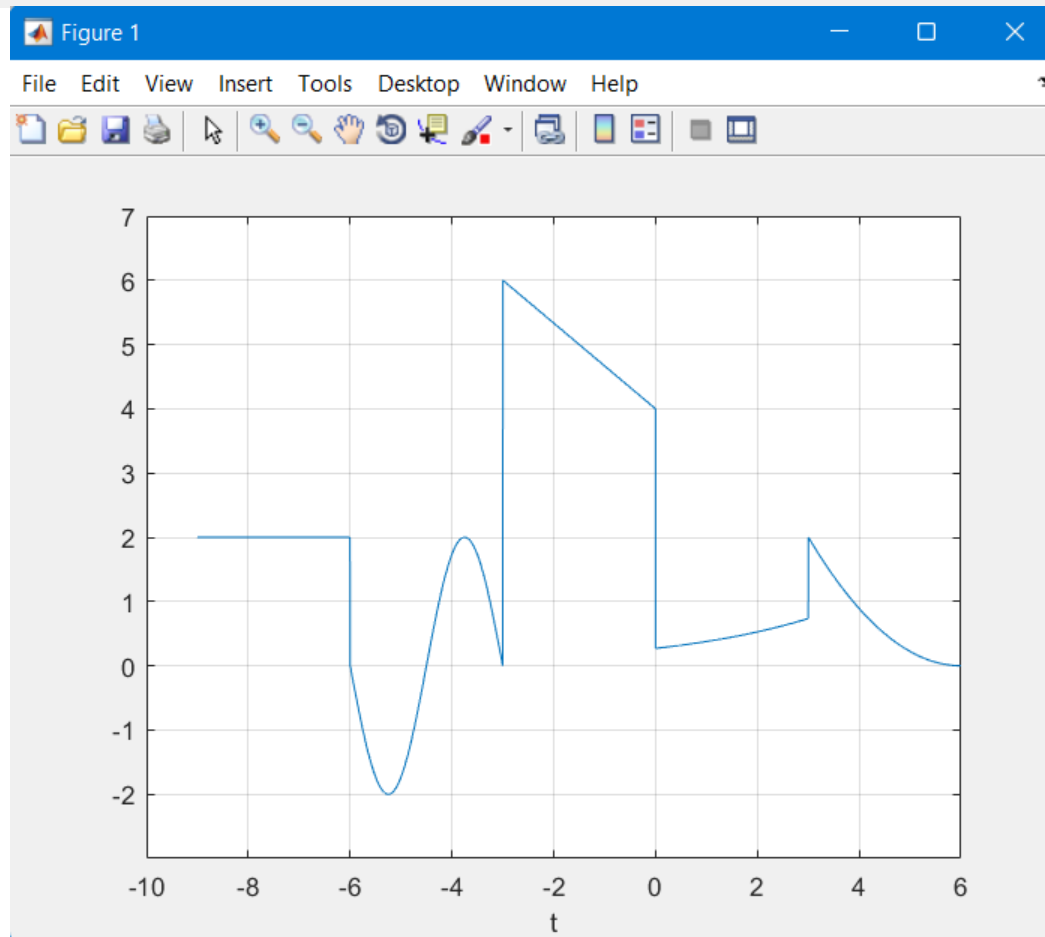
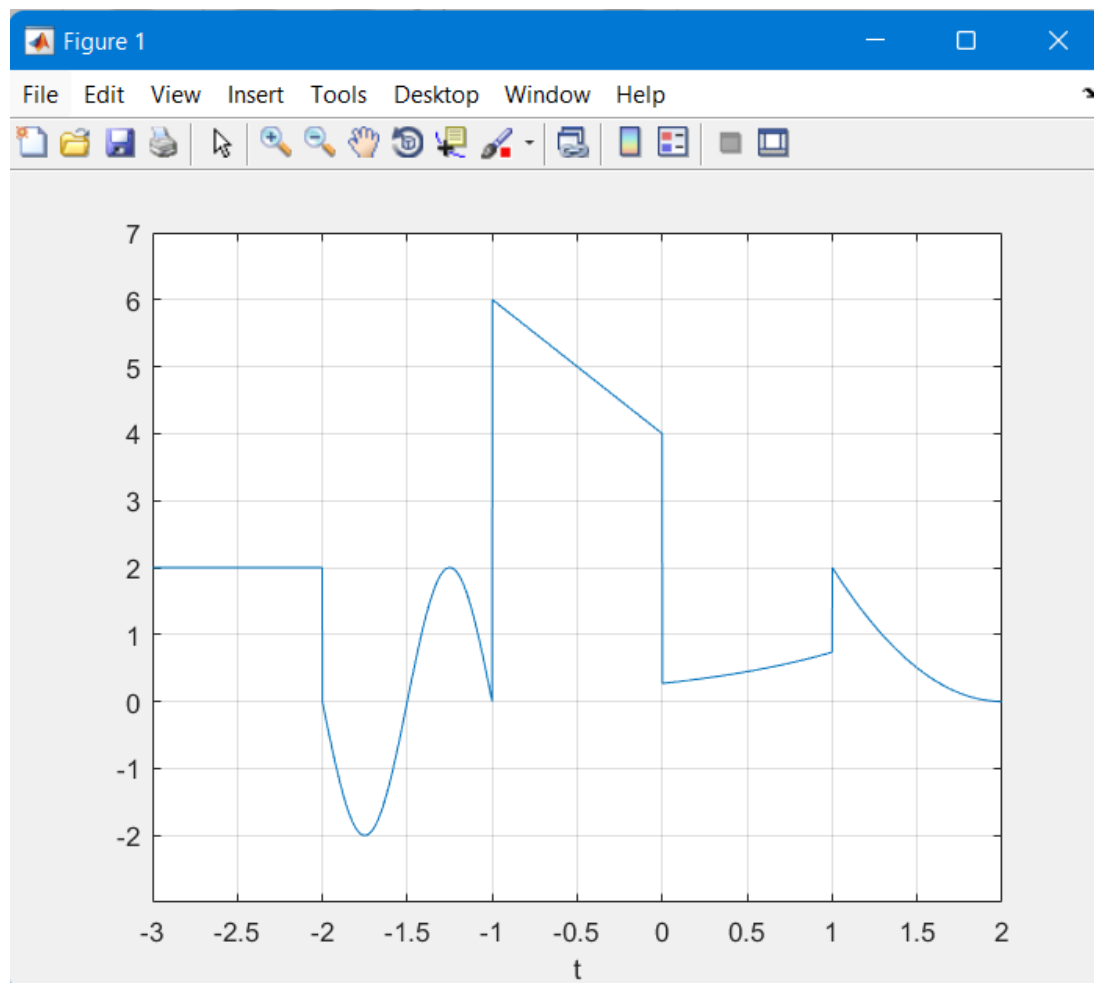
input compression value: 2

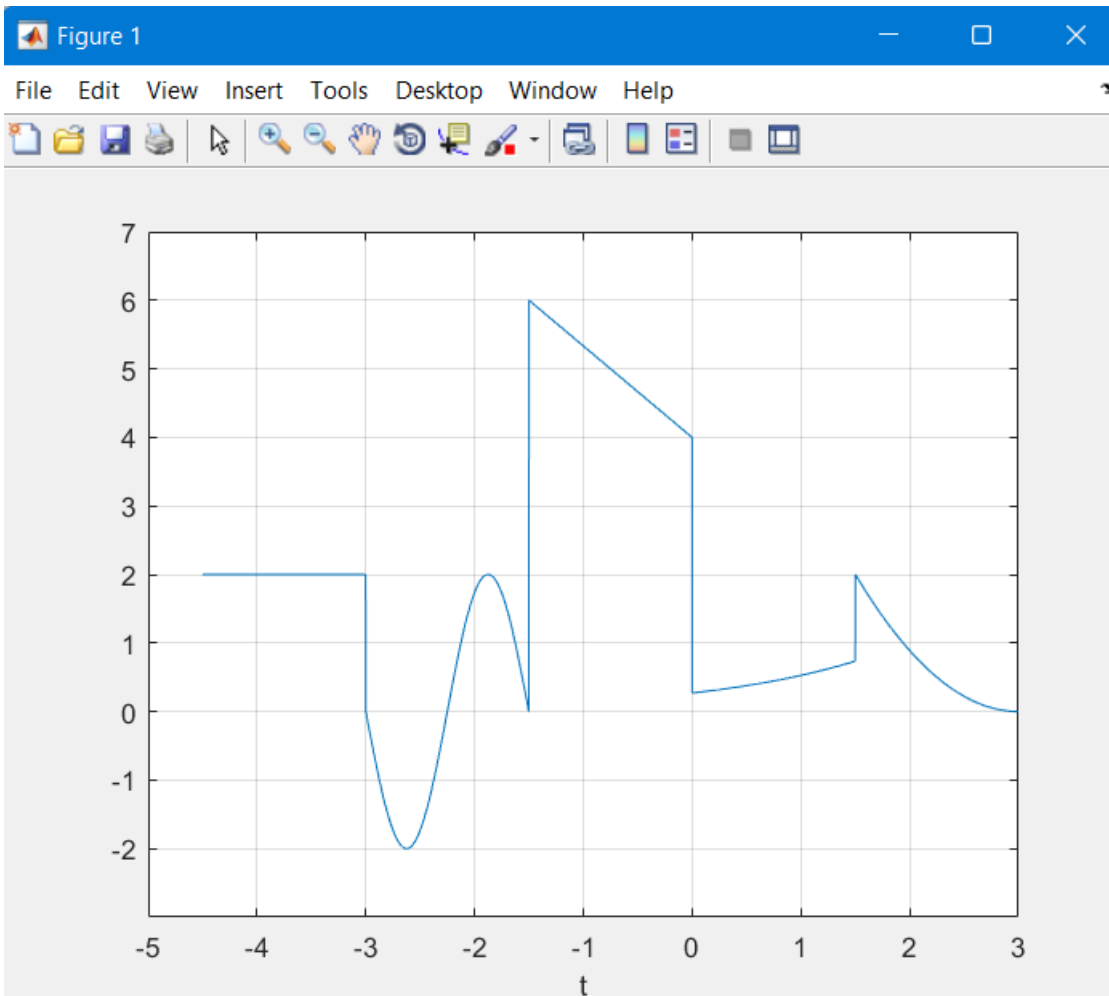
Do you want to end (true to end , false to apply more changing to the signal): true

Sample run results:









Sample Run 2:

MATLAB input:

Enter the sampling frequency: 1000

Enter the starting time scale: -2

Enter the ending time scale: 2

Enter the number of break points: 2

Enter breakpoint no. 1:

0

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 5

Enter amplitude: 2

Enter frequency: 2

Enter phase: 0

Enter breakpoint no. 2:

1

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 2

Enter slope: 2

enter intercept: 1

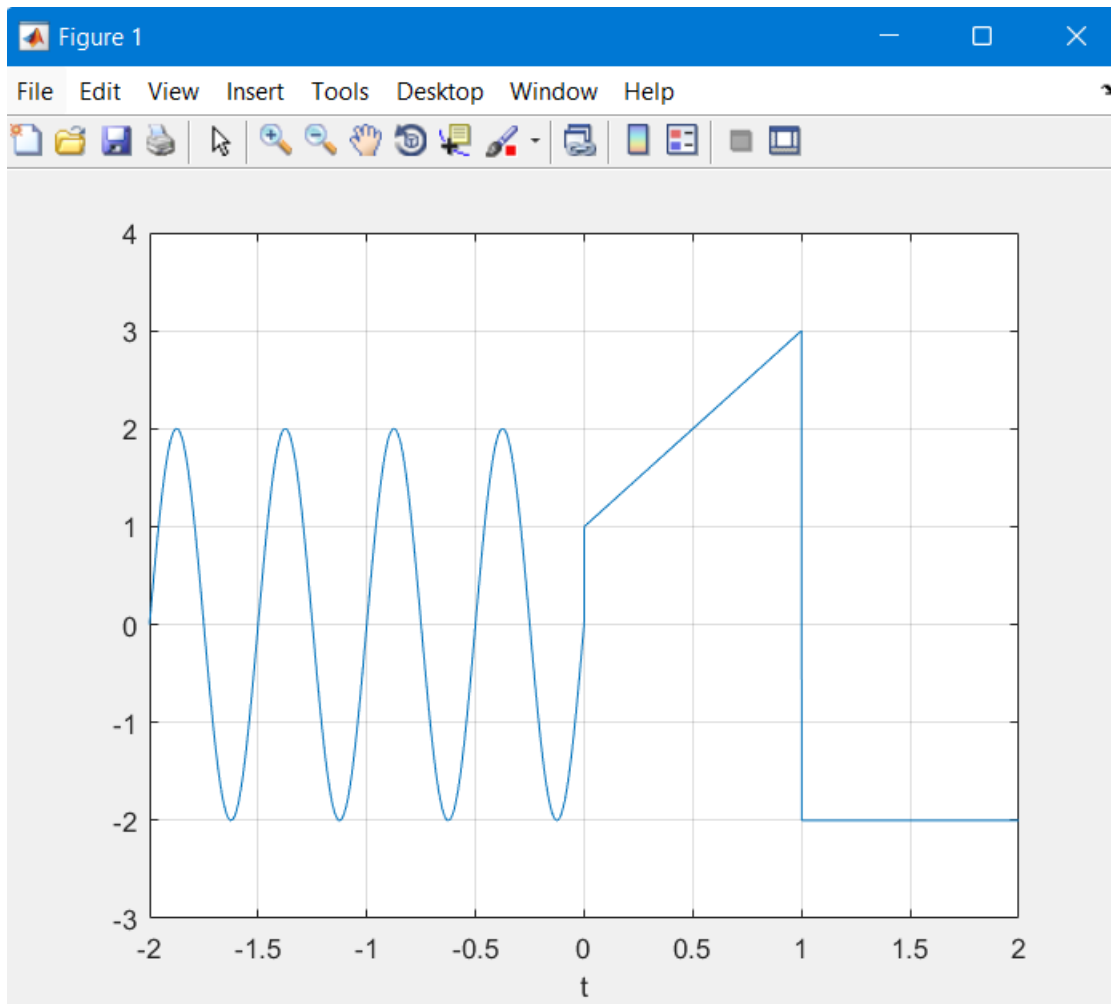
Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 1

Enter amplitude: -2

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 6

Do you want to end (true to end , false to apply more changing to the signal): true

MATLAB results:



Sample run 3:

Enter the sampling frequency: 10000

Enter the starting time scale: -1

Enter the ending time scale: 3

Enter the number of break points: 0

Choose the signal number from 1 DC signal, 2 ramp signal, 3 General order polynomial, 4 Exponential signal and 5 Sinusoidal signal: 3

Enter the greatest power: 3

Enter the amplitude of X to the power 1: 2

Enter the amplitude of X to the power 2: -3

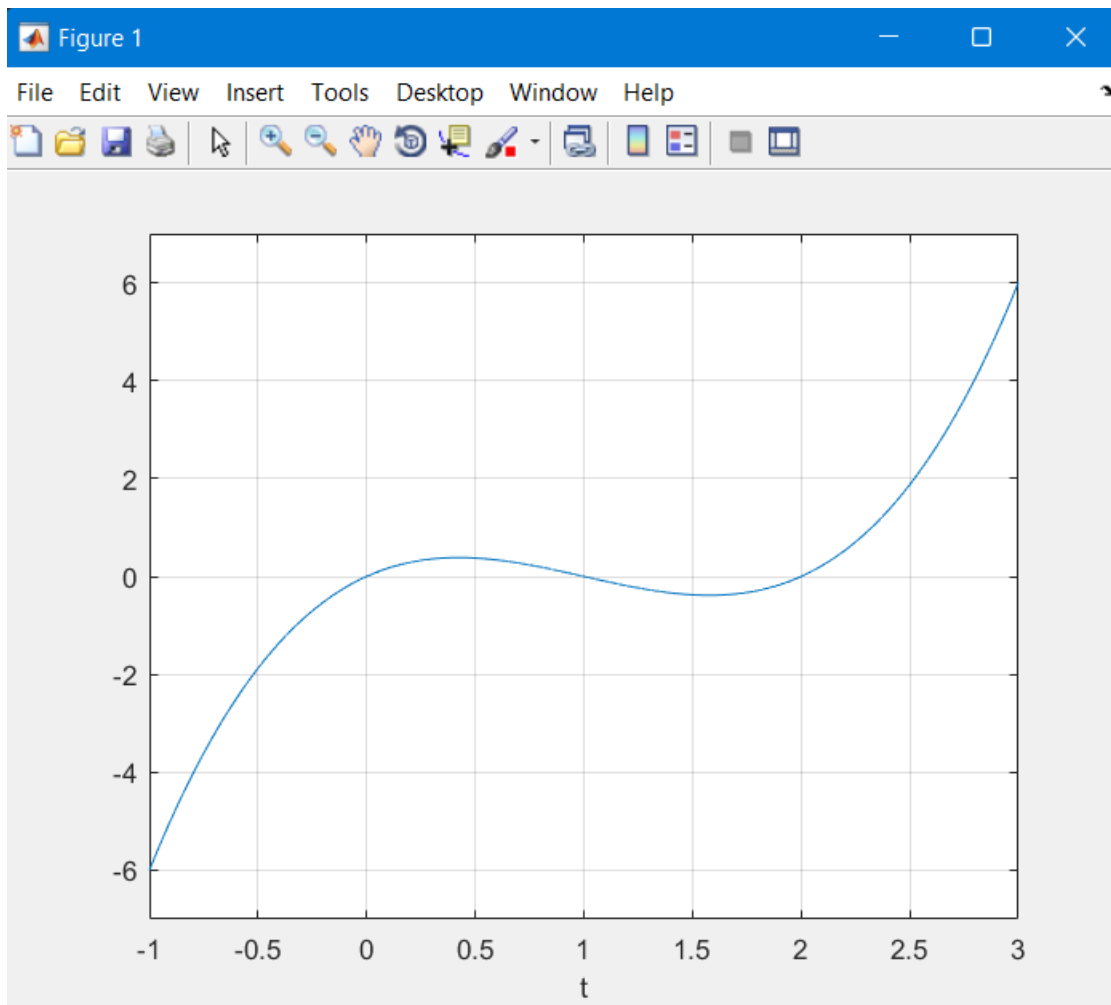
Enter the amplitude of X to the power 3: 1

enter intercept: 0

Choose an operation number from 1 Amplitude Scaling, 2 Time reversal, 3 Time shift, 4 Expanding the signal, 5 Compressing the signal and 6 none: 6

Do you want to end (true to end, false to apply more changing to the signal): true

MATLAB results:



Sample run 4:

>> Finalprojectpart2

Enter the sampling frequency: 2000

Enter the starting time scale: 0

Enter the ending time scale: 12

Enter the number of break points: 1

Enter breakpoint no. 1:

6

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 5

Enter amplitude: 2

Enter frequency: 3

Enter phase: 4

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 4

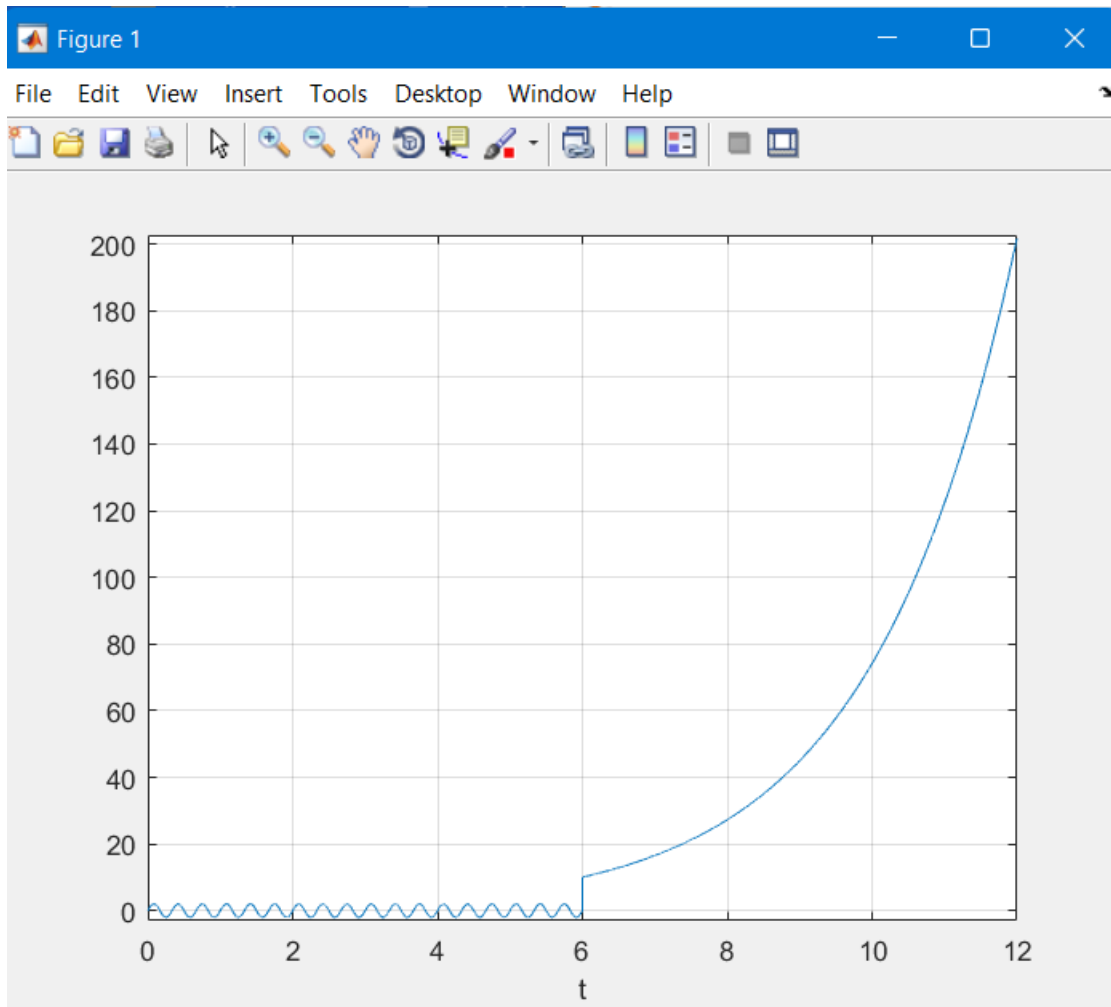
Enter amplitude: 0.5

enter exponent: 0.5

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 6

Do you want to end (true to end , false to apply more changing to the signal): true

MATLAB RESULTS:



Sample run 5:

Enter the sampling frequency: 4000

Enter the starting time scale: -4

Enter the ending time scale: 4

Enter the number of break points: 3

Enter breakpoint no. 1:

-2

Choose the signal number from 1 DC signal, 2 ramp signal, 3 General order polynomial, 4 Exponential signal and 5 Sinusoidal signal: 4

Enter amplitude: 1

enter exponent: 1

Enter breakpoint no. 2:

0

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 2

Enter slope: 0.5

enter intercept: 1

Enter breakpoint no. 3:

2

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 1

Enter amplitude: -2

Choose the signal number from 1 DC signal,2 ramp signal,3 General order polynomial,4 Exponential signal and 5 Sinusoidal signal: 5

Enter amplitude: -1

Enter frequency: 2

Enter phase: 1

Choose an operation number from 1 Amplitude Scaling,2 Time reversal,3 Time shift,4 Expanding the signal,5 Compressing the signal and 6 none: 6

Do you want to end (true to end , false to apply more changing to the signal): true

MATLAB results:

