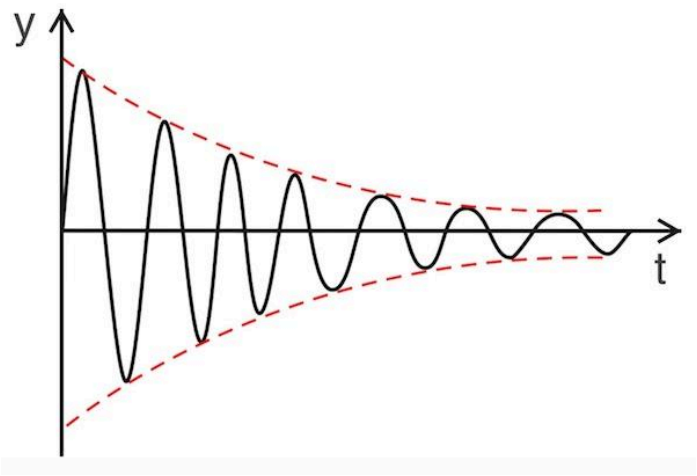
Gedämpfte Schwingung (Live Script Demo)

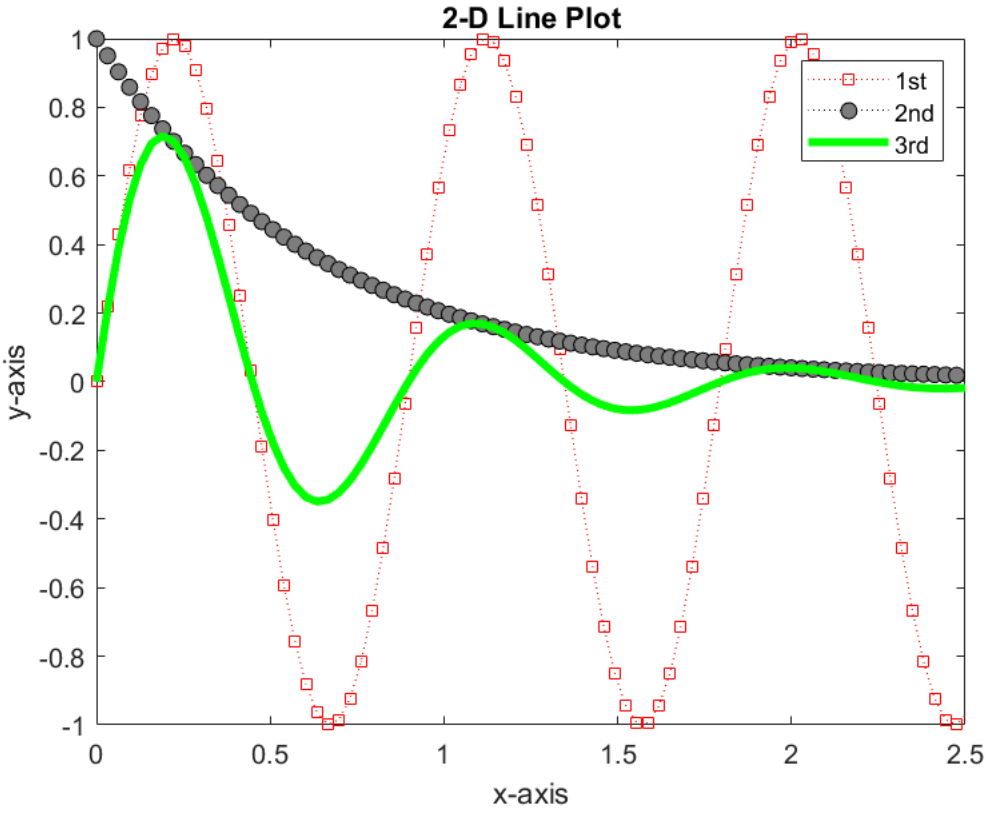


Exercise description: Consider the following equations:

$$y1 = \sin(\omega\, x)$$
$$y2 = \exp(-k\, x)$$

Omega is the frequency of the oscillation and k is the damping coefficient.

The resulting damped oscillation is given by the product y1*y2. Calculate the three curves and plot them on the interval x=[0,2pi] using 100 samples using different line styles and markers.


2-D Line Plot
1st
2nd
3rd
y-axis
x-axis
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.5
1
1.5
2
2.5