

CSC 305 Computer Graphics

Lab Exercise

This example is to plot the mathematical function.

Suppose we wish to learn the behavior of some mathematical function $f(x)$ as x varies, for example,

$$f(x) = e^{1-x} \cos(2\pi x)$$

Vary for values of x between 0 and 4? A quick plot of $f(x)$ vs. x reveals patterns and trends of information to the analyst.

To plot this function, simply sample it as a collection of closely spaced x -values and plot a dot at each coordinate pair $(x_i, f(x_i))$. Choosing some suitable increment say 0.005, between consecutive x -values.

Sample Output



