PHYSICAL MODELING IN MATLAB

EXERCISE 1.1

Write a MATLAB expression for:

$$\frac{e^{-\left(\frac{x-\mu}{\sigma\sqrt{2}}\right)^2}}{\sigma\sqrt{2\pi}}$$
.

Assume μ , σ and x already exist.

The MATLAB code is:

```
% define mu, sigma and x (choosing arbitrary values) mu = 2.2; sigma = 0.75; x = 0.5; % create the expression result = \exp(-((x - mu)/(sigma * sqrt(2)))^2)/(sigma * sqrt(2*pi));
```