Lab Assignment 2

1. Write functions to find a solution to the following nonlinear equations:

(a)
$$x - e^{-x} = 0$$

(b)
$$\sinh x + 2x - 5 = 0$$

(c)
$$\tanh x - 2x + 5 = 0$$

using (i) bisection, (ii) Newton-Raphson, and (iii) secant methods.

2. Write a function to calculate square root of a positive number using Newton-Raphson method.

NOTE: Scilab has "sqrt" function for calculating square roots.