## Problem1:

Expected exit time: 8.8889

## Problem2:

 $\epsilon$  = 2.00: Expected exit time = 7.5641  $\epsilon$  = 1.50: Expected exit time = 7.7975  $\epsilon$  = 1.00: Expected exit time = 7.5681  $\epsilon$  = 0.75: Expected exit time = 7.9415

 $\epsilon$  = 0.50: Expected exit time = 8.4252

 $\epsilon$  = 0.25: Expected exit time = 9.5093

 $\epsilon$  = 0.10: Expected exit time = 11.8148

## Problem3:

Computing x0 = (0.20, 0.00): T = 2.4040

Computing x0 = (0.80, 0.00): T = 7.7315

Computing x0 = (1.40, 0.00): T = 9.4475

Computing x0 = (2.00, 0.00): T = 11.7522

Computing x0 = (-0.10, 0.17): T = 3.0819

Computing x0 = (-0.40, 0.69): T = 6.8183

Computing x0 = (-0.70, 1.21): T = 9.0126

Computing x0 = (-1.00, 1.73): T = 9.3779

Commuting v0 = ( 0.10 0.17), T = 2.025

Computing x0 = (-0.10, -0.17): T = 3.0353Computing x0 = (-0.40, -0.69): T = 7.5804

Computing x0 = (-0.70, -1.21): T = 8.9617

Computing x0 = (-1.00, -1.73): T = 9.8599Computing x0 = (0.20, -0.00): T = 2.9626

Computing x0 = (0.80, -0.00): T = 7.6440

Computing x0 = (1.40, -0.00): T = 9.3180

Computing x0 = (2.00, -0.00): T = 10.7761