

In The Name of God, The Compassionate, The Merciful

Name:

Student ID#:

Statistical Pattern Recognition (CE-725)
Department of Computer Engineering
Quiz #8 - Spring 2010

- a. (10 points)** Prove that $K(x,x') = (x^T x' + 1)^2$ is a valid kernel.
- b. (10 points)** Find the corresponding transformation function of this kernel.
(Hint : You may guess this function instead of using Mercer's Theorem)