

Name:

Student ID#:

Statistical Pattern Recognition (CE-725)
Department of Computer Engineering
Quiz #1 (Overview & Introductory Materials) - Spring 2012

1. Define the posterior distribution in terms of the prior distribution, the marginal likelihood and the likelihood. How can the marginal likelihood be used?
2. What is meaning of third and fourth Moments?
3. Consider a two-class problem, such as classifying a sample as " \star " versus " \dagger ". We define two features for this problem, and measure the feature-values obtained from various training samples (showed in the following plot). Which feature has better discrimination power? Explain.

