# Mathematics 1550 H - Introduction to probability Trent University, Summer 2014 <br> Assignment \#2 Deals <br> Due on Monday, 7 July, 2014. 

A hand of five cards is dealt - randomly, one card at a time, without replacement - from each of two standard decks of 52 cards.

1. What is the probability that the two hands have exactly one card in common? [3]
2. What is the probability that the two hands have at least one card in common? [3]
3. Determine whether the events of "the two hands have at least one card in common" and "the first hand is all Ms " are independent or not. [4]
