

Quiz 8: Probability of unions and complements, conditional probability

MAT 123, SUMMER 2016

NAME:

1. (10 points) We conduct an experiment by flipping a coin and drawing a card from a deck.
 - (a) What is the probability that the coin shows tails?

- (b) What is the probability that the card is a diamond?

- (c) What is the probability of flipping tails and drawing a diamond?

- (d) What is the probability of flipping tails or drawing a diamond?

2. (10 points) An urn contains 10 red chips and 2 green chips. Two chips are drawn from the jar.
- (a) What is the probability that the first chip is green?

(b) If the first chip is green, what is the probability that the second chip is red?

(c) What is the probability of getting two red chips?

(d) What is the probability that the second chip is red?