

Retake 8: Probability of unions and complements, conditional probability

MAT 123, SUMMER 2016

NAME:

1. (10 points) We conduct an experiment by drawing a card from a deck and then flipping a coin.

- (a) What is the probability that the card is a queen?

- (b) What is the probability that the coin shows heads?

- (c) What is the probability of drawing a queen and getting heads?

- (d) What is the probability of drawing a queen or getting heads?

2. (10 points) An urn contains 4 red chips and 2 green chips. Two chips are drawn from the jar.
- (a) What is the probability that the first chip is red?

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

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

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