

NAME: _____

(1) Suppose that an urn has 3 red marbles and 2 blue marbles. Draw marbles (without replacement) until you get ONE red marble.

(a) Draw a tree diagram that represents all of the possible outcomes of this experiment. (HINT: All of the branches of this tree are NOT the same length.)

(b) What is the probability that you draw at least one blue marble?

(c) What is the probability that this experiment terminates when you draw a second marble?