1. Ten fuses are randomly drawn and without replacement from a lot containing 20 bad fuses and 80 good fuses. Find the probability of the following two events:

   (a) (3 points) All 10 selected fuses are bad.

   (b) (3 points) The ten selected fuses contains both bad and good fuses.

2. (4 points) Find the conditional probability that a hand of 5 cards drawn randomly and without replacement from a deck of 52 cards contains two aces given that it contains 2 kings.