141. In 1,000 tosses of a coin, 560 heads and 440 tails occur. Is it reasonable to assume the coin is fair?

    (a) What are the null and alternative hypotheses?

    (b) If the null is true, what is the probability of getting 560 heads in 1,000 tosses?

    (c) Based on this probability, is it reasonable to assume the coin is fair?