Review Text: Chapters 1 and 2.

1. Mao 1.2.

2. Mao 1.3.

3. What is the problem with the following method of “Coin Flipping Over Telephone”

   PREMISE – Alice and Bob have agreed:
   i) a “magic function” $f$ with Property 1.1
   ii) an even number for $f(x)$ represents HEADS and an odd number represents TAILS

   PROCEDURE:
   1. Alice picks a large random integer $x$ and computes $f(x)$;
   2. Bob tells Alice his guess of $f(x)$ being even or odd;
   3. Alice reveals $f(x)$ to Bob and Bob determines if he has won or loss
   4. Alice reveals $x$ to Bob so he can verify $f(x)$ and see the that Alice knows $x$. 