## Johns Hopkins Engineering 625.464 Computational Statistics

Squeezed Rejection Sampling

Module 4 Lecture 4D



Why Squeezed Rejection Sampling?

Ordnay rejection sampling

Descripte that (011)

Sample unit(011)

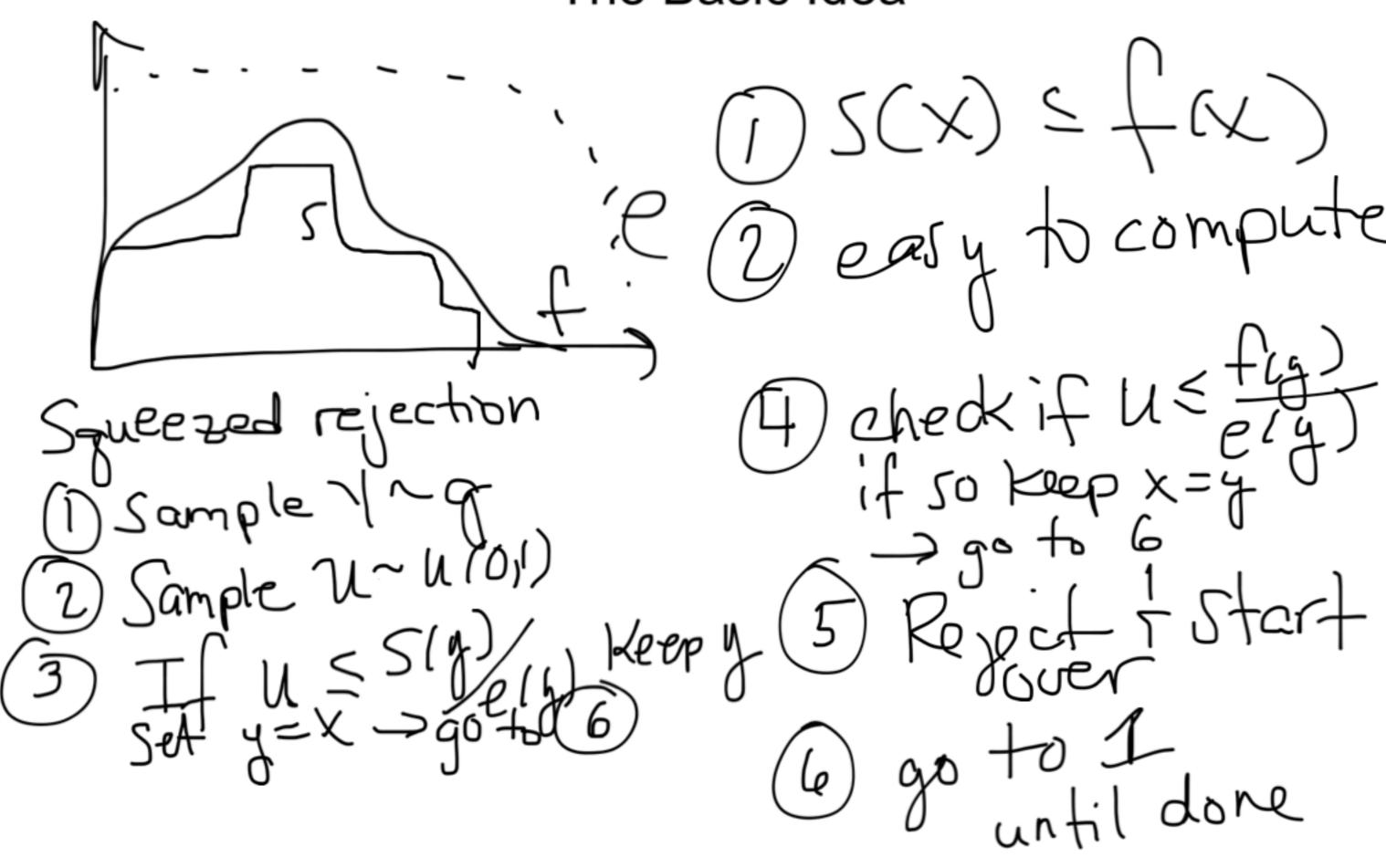
The unit(011)

The unit(011)

Where the end reject

The unit(011)

## Squeezed Rejection Sampling The Basic Idea



## Pseudo code for Squeezed Rejection Sampling

```
Pseudo code for Squeezed Rejection Sampling.
Suppose you want to generate n random numbers from distribution f using S.R.S. w/ S, g and
  e= 8/2.
Bendocode
 - Initialize constants n & x
 - Initialize variables YInJ=00 accepted=0
 - While (accepted < n) }
                                      (sample g)
        x = r.n. from g
u = r.n. from u(0,1)
                                     (sample U/0,1)
                                      (eval satx)
        S = S(X)
                                       (eval eatx)
      eg = g(x)/x
   If ( u = 5/e) {
       accepted = accepted + )
       Y[accepted] = X
        accepted = accepted + 1
        y caccepted ]=x
```