STA511 Homework #1

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1. X is a uniform random variable $(X \sim U(0,1))$. The histogram is shown in Figure 1a.

2. My answer to # 2, has multiple parts.

   (a) Here how I answered part a.

   (b) Here's my code for part b

   ```
   x = rnorm(10)
   hist(x)
   ```

3. Ugh, this problem involves the table below

Range	Grade
≥ 95	A
≥ 90 and < 95	A-
≥ 85 and < 90	B+
≥ 80 and < 85	B
≥ 75 and < 80	B-
< 75	C

Figure 1: Histogram of uniform random variables from 0 to 1 simulated 1000
times.

X ~ U(0,1) Simulations

Y = pi/X − (pi/4) Simulations