STA 243 Assignment 4.1

1.

In this part, it is just some basic coding using runif(n,a,b) function to generate sample $x \in [a, b]$ and evaluate each of the integrals. Details are in the coding file, here is just the results for each question.

(a)

```
## [1] "the integral for (a) is 0.333807882745648"
```

(b)

```
## [1] "the integral for (b) is 3.46411636719222"
```

(c)

```
## [1] "the integral for (c) is 2.27395767095112"
```