```
a.
  mc_estimate = function(f) {
       x = runif(10000)
       y = sapply(x, f)
       return(mean(y))
   }
b.
  > mc_estimate = function(f) {
        x = runif(10000)
        y = sapply(x, f)
        return(mean(y))
  + }
  > f = function(x) exp(-(x^2))
  > mc_estimate(f)
  [1] 0.7496916
  >
c.
  > f = function(x) sin(cos(sin(x)))
  > mc_estimate(f)
  [1] 0.7604602
  >
```

2.

1.