

hw1

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```
a <- pi / 2
b <- -pi / 2
N = 1000
rand_point <- runif(N, b, a)
down <- (a - b) / 2 * sum(2 * abs(rand_point) - pi)
up <- (a - b) / 2 * sum(sin(2 * rand_point))
res <- up - down
res
```

```
## [1] 2397.052
```