

/Users/dfraser

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Type 'demo()' for some demos, 'help()' for on-line help, or
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Type 'q()' to quit R.

[Previously saved workspace restored]

```
> x <- c(1.000000003, 1.000000004, 1.000000005, 1.000000006, 1.000000007)
> length(x)
[1] 5
> mean(x)
[1] 1
> options(digits=12)
> mean(x)
[1] 1.000000005
> var(x)
[1] 2.49999985859e-18
> sum((x-mean(x))^2)/4 # the accurate formula
[1] 2.49999985859e-18
> (sum(x*x)-sum(x)^2/5)/4 # the not accurate formula
[1] 4.4408920985e-16
>
```