## Homework 6.4

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```
Exercise 7.21 (a)
sigma=.7
n=16
mu=476.4
z1=qnorm(.95,0,1)
z2=qnorm(.05,0,1)
mu+z1*sigma/sqrt(16)
## [1] 476.6878
mu+z2*sigma/sqrt(16)
## [1] 476.1122
 (b)
mu+z1*(sigma*sqrt(1+1/n))
## [1] 477.5868
mu-z1*(sigma*sqrt(1+1/n))
## [1] 475.2132
 (c)
z1=qnorm(.975,0,1)
mu-z1*sigma/sqrt(16)
## [1] 476.057
mu+z1*sigma/sqrt(16)
## [1] 476.743
```