

## Homework 6.2

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Exercise 7.12 (a)

```
68.45-1.6449*3/sqrt(16)
```

```
## [1] 67.21632
```

```
68.45+1.6449*3/sqrt(16)
```

```
## [1] 69.68368
```

(b)

```
z=qt(.95,15)  
z
```

```
## [1] 1.75305
```

(c)

```
68.45-z*2.73/sqrt(16)
```

```
## [1] 67.25354
```

```
68.45+z*2.73/sqrt(16)
```

```
## [1] 69.64646
```

Exercise 7.14

```
t=(4.915-5)/(.2)/sqrt(16)  
pt(t,15)
```

```
## [1] 0.458396
```

p value is greater than .1 so we fail to reject  $H_0$