

# Análise Comparativa (TTests) Bairros

## Feminino Agradável

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.000147596911361041    two.sided"
## [1] "Welch Two Sample t-test  0.000276078098541554    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.999929818968638    less"
## [1] "Welch Two Sample t-test  0.999861960950729    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    7.37984556805207e-05    greater"
## [1] "Welch Two Sample t-test  0.000138039049270777    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0178452160047438    two.sided"
## [1] "Welch Two Sample t-test  0.0649448906498607    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.991332384022106    less"
## [1] "Welch Two Sample t-test  0.96752755467507    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.00892260800237191    greater"
## [1] "Welch Two Sample t-test  0.0324724453249303    greater"

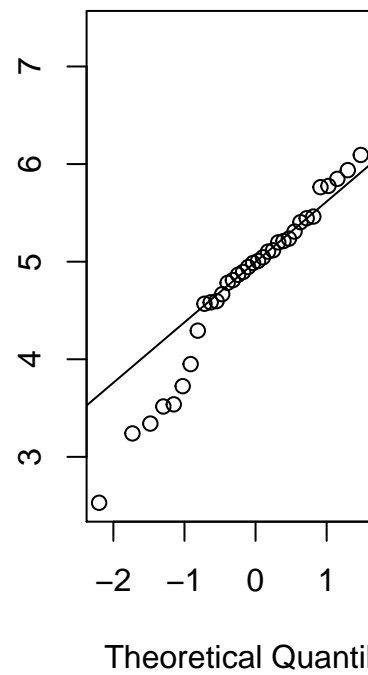
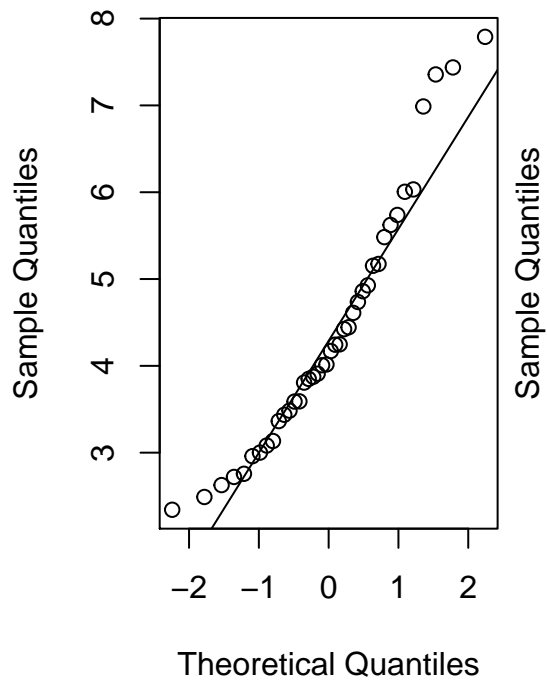
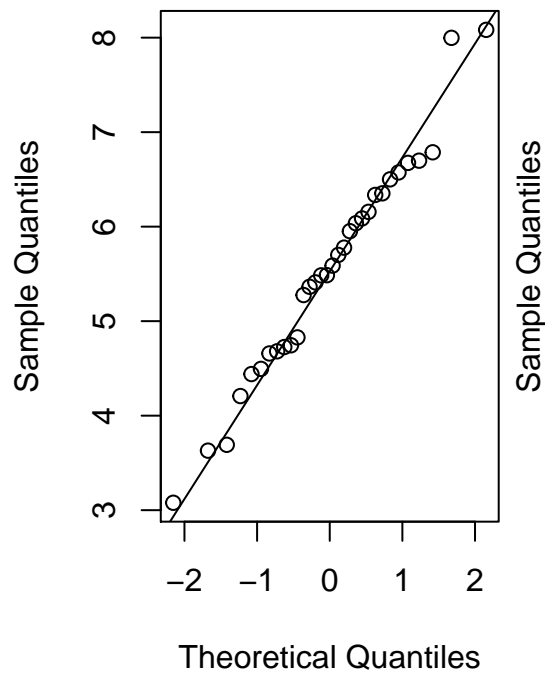
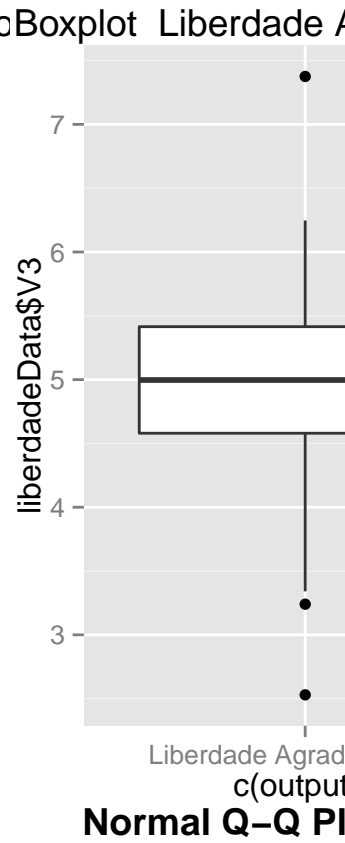
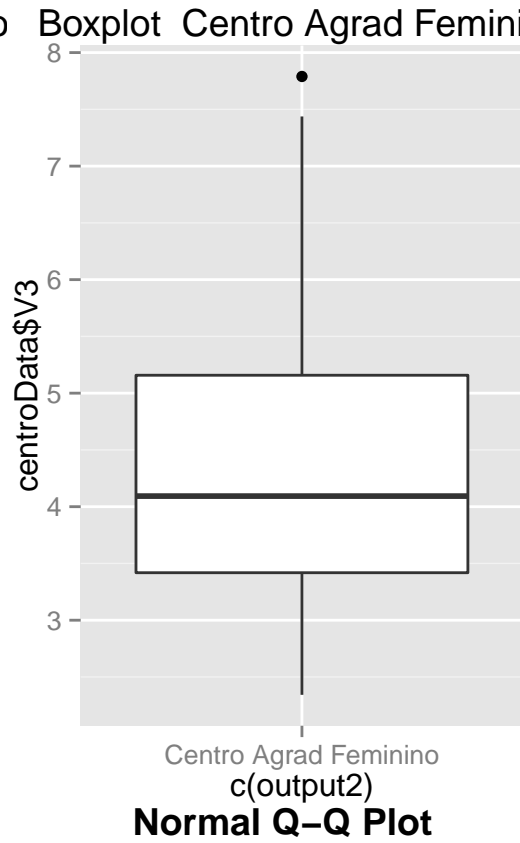
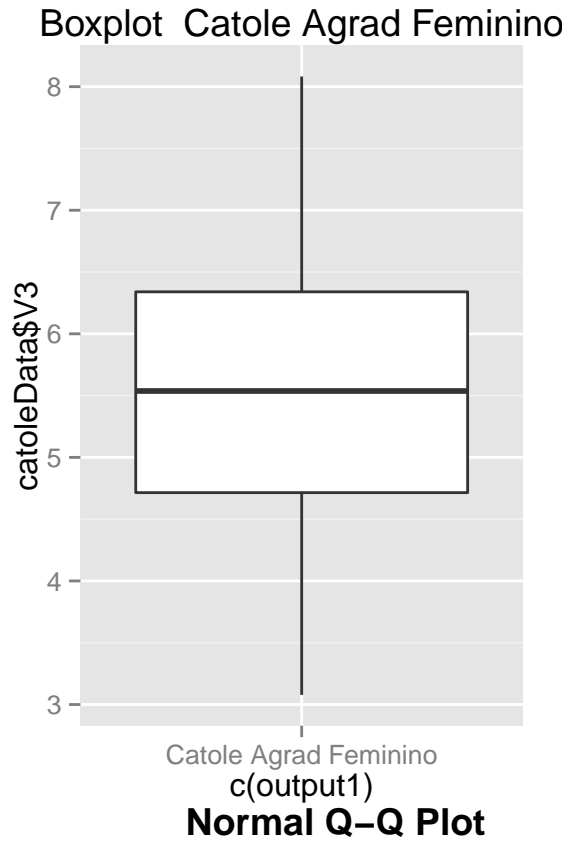
## pdf
## 2
```

### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0167443501843    two.sided"
## [1] "Welch Two Sample t-test  0.0155770063771075    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.991913164648166    less"
## [1] "Welch Two Sample t-test  0.992211496811446    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.00837217509215001    greater"
## [1] "Welch Two Sample t-test  0.00778850318855375    greater"

## pdf
## 2
```

# Normalidade Catole, Centro, Liberdade



## Feminino Segurança

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.638279227811086    two.sided"
## [1] "Welch Two Sample t-test  0.410795214651657    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.319139613905543    less"
## [1] "Welch Two Sample t-test  0.205397607325829    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.685213917688999    greater"
## [1] "Welch Two Sample t-test  0.794602392674171    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.626210224856287    two.sided"
## [1] "Welch Two Sample t-test  0.416956707255717    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.313105112428144    less"
## [1] "Welch Two Sample t-test  0.208478353627858    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.690855363198617    greater"
## [1] "Welch Two Sample t-test  0.791521646372142    greater"

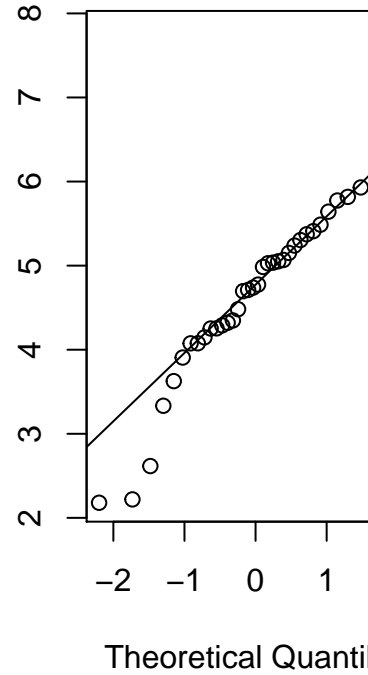
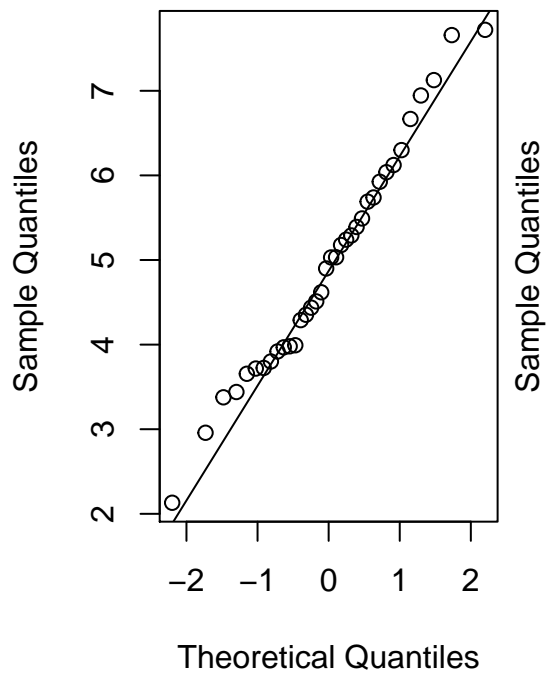
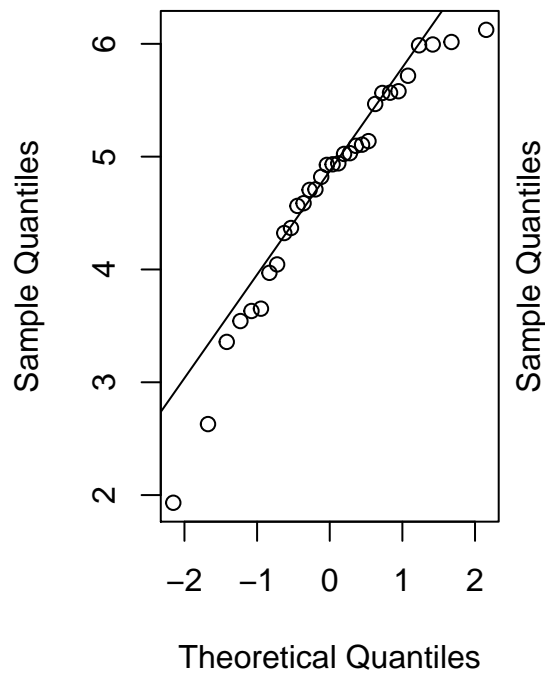
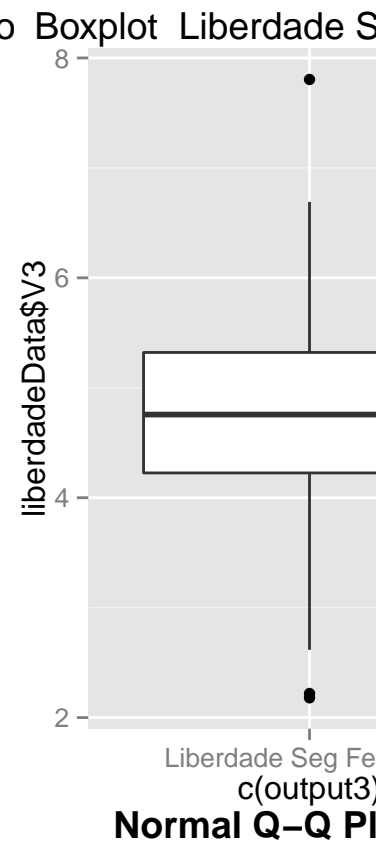
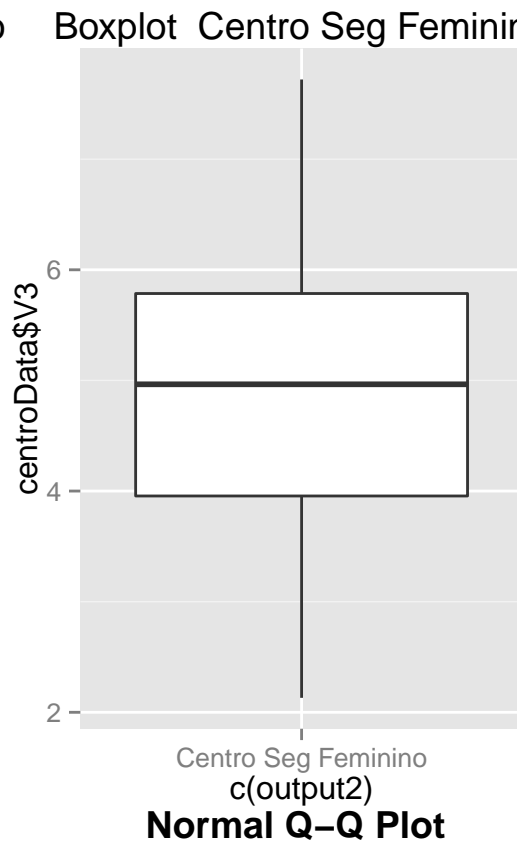
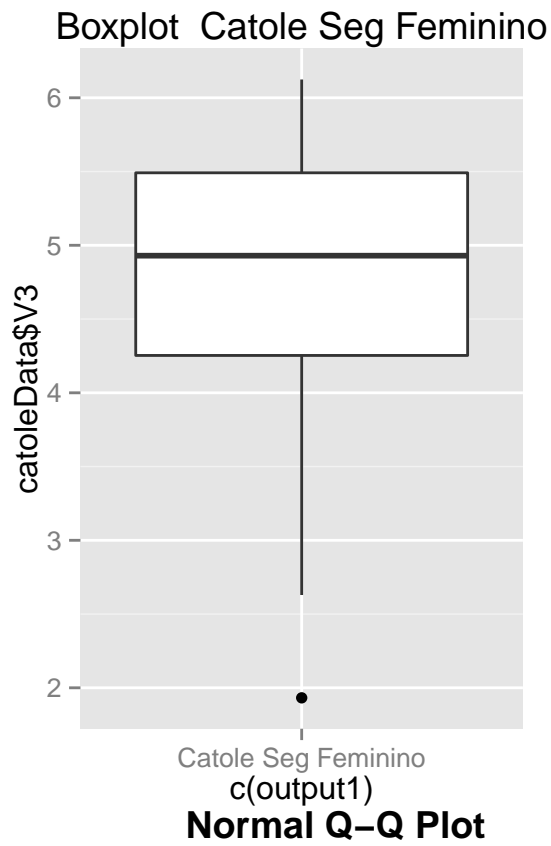
## pdf
## 2
```

### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.802410949168676    two.sided"
## [1] "Welch Two Sample t-test  0.99164277696257    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.603508113416578    less"
## [1] "Welch Two Sample t-test  0.504178611518715    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.401205474584338    greater"
## [1] "Welch Two Sample t-test  0.495821388481285    greater"

## pdf
## 2
```

Normalidade Catole, Centro, Liberdade



## Masculino Agradável

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.00113236741934263    two.sided"
## [1] "Welch Two Sample t-test  0.000772525185963504    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.999457477553602    less"
## [1] "Welch Two Sample t-test  0.999613737407018    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.000566183709671315    greater"
## [1] "Welch Two Sample t-test  0.000386262592981752    greater"

## pdf
## 2
```

### Liberdade x Centro

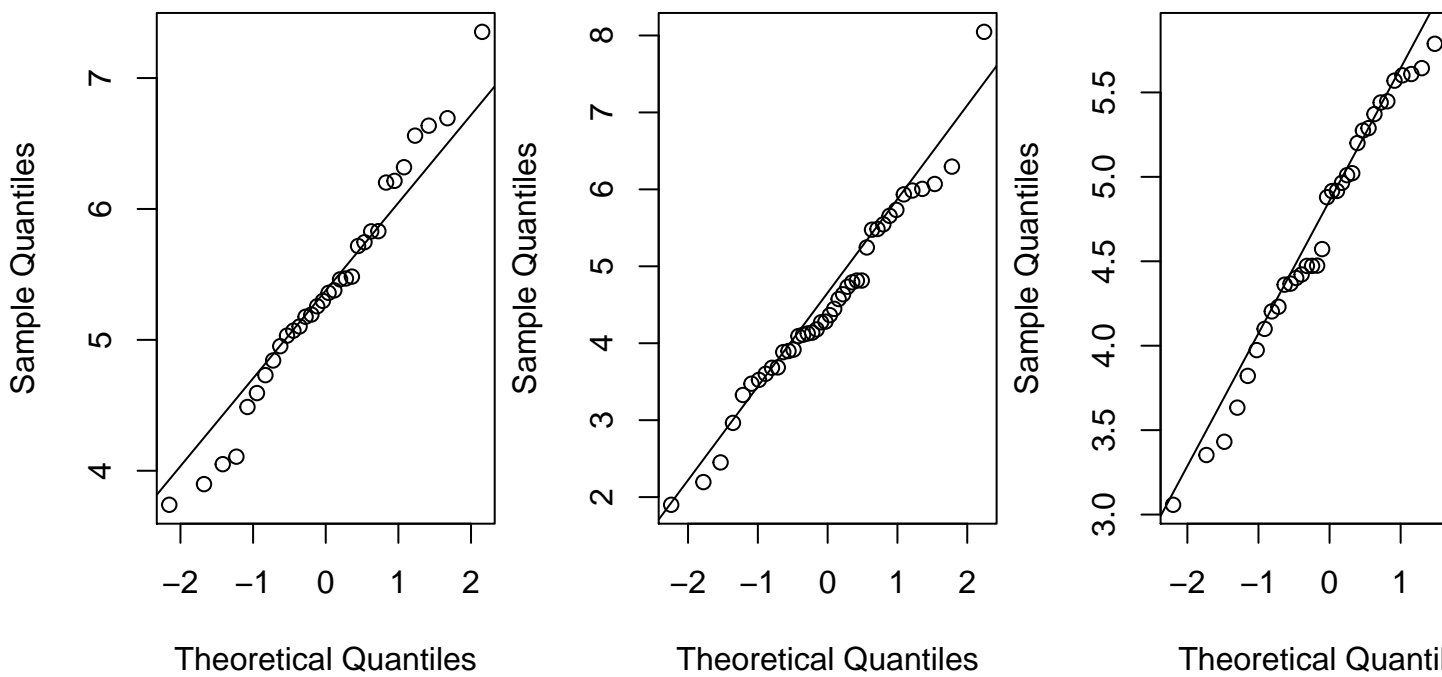
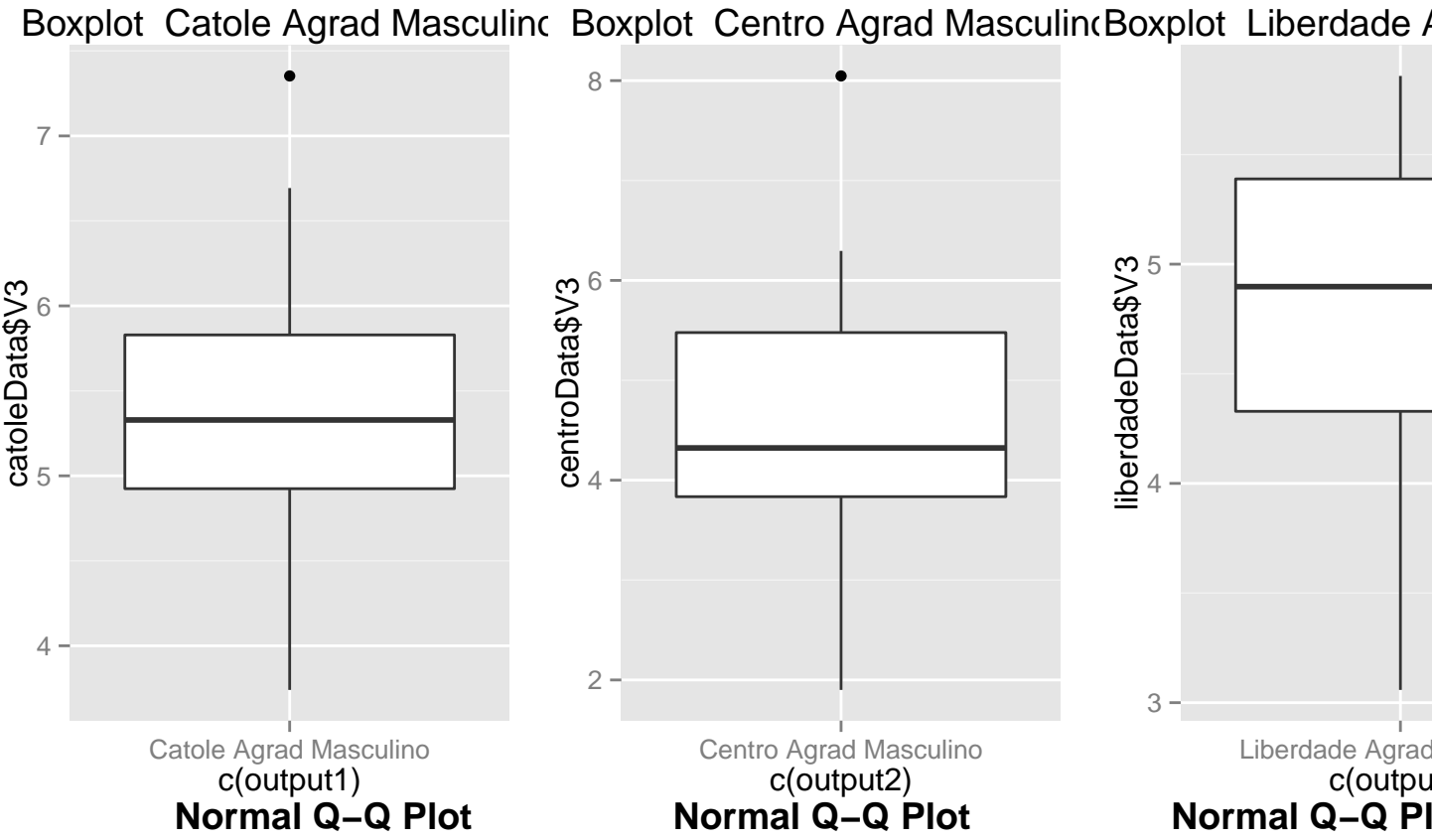
```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.226961390319096    two.sided"
## [1] "Welch Two Sample t-test  0.300597100420244    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.888512604430434    less"
## [1] "Welch Two Sample t-test  0.849701449789878    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.113480695159548    greater"
## [1] "Welch Two Sample t-test  0.150298550210122    greater"

## pdf
## 2
```

### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.00508501877192857    two.sided"
## [1] "Welch Two Sample t-test  0.00239696098873272    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.997557303463461    less"
## [1] "Welch Two Sample t-test  0.998801519505634    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.00254250938596429    greater"
## [1] "Welch Two Sample t-test  0.00119848049436636    greater"

## pdf
## 2
```



## Masculino Segurança

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.70962965818686    two.sided"
## [1] "Welch Two Sample t-test  0.762225007569775    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.649721889013221    less"
## [1] "Welch Two Sample t-test  0.618887496215112    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.35481482909343    greater"
## [1] "Welch Two Sample t-test  0.381112503784888    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.214735872958558    two.sided"
## [1] "Welch Two Sample t-test  0.170865423803085    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.107367936479279    less"
## [1] "Welch Two Sample t-test  0.0854327119015426    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.894705892592959    greater"
## [1] "Welch Two Sample t-test  0.914567288098457    greater"

## pdf
## 2
```

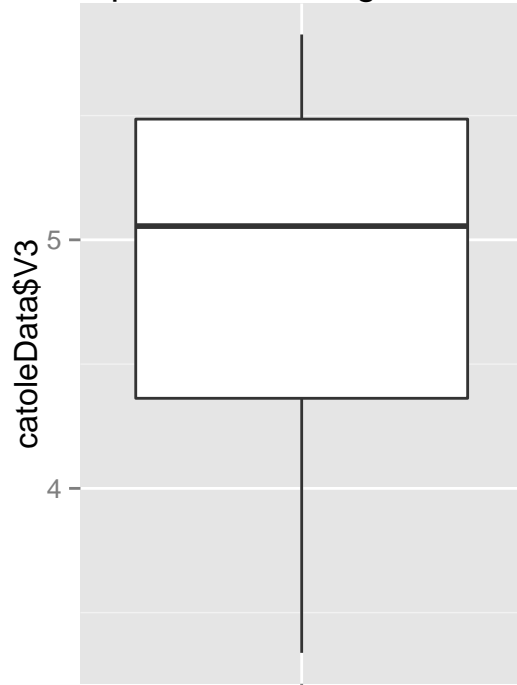
### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0573085363745733    two.sided"
## [1] "Welch Two Sample t-test  0.0742568871741144    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.972155467029524    less"
## [1] "Welch Two Sample t-test  0.962871556412943    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0286542681872866    greater"
## [1] "Welch Two Sample t-test  0.0371284435870572    greater"

## pdf
## 2
```

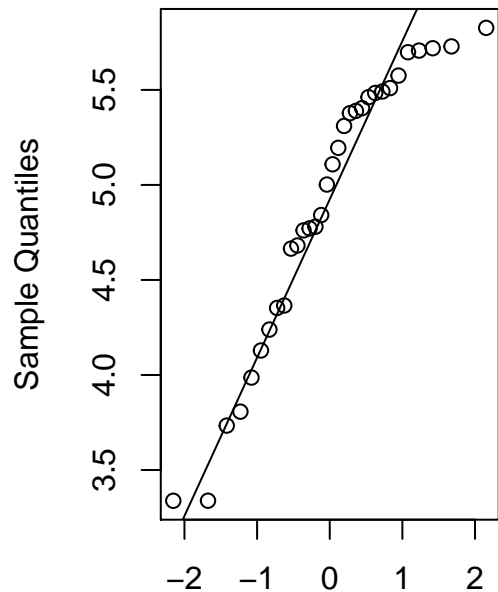
Normalidade Catole, Centro, Liberdade

Boxplot Catole Seg Masculino



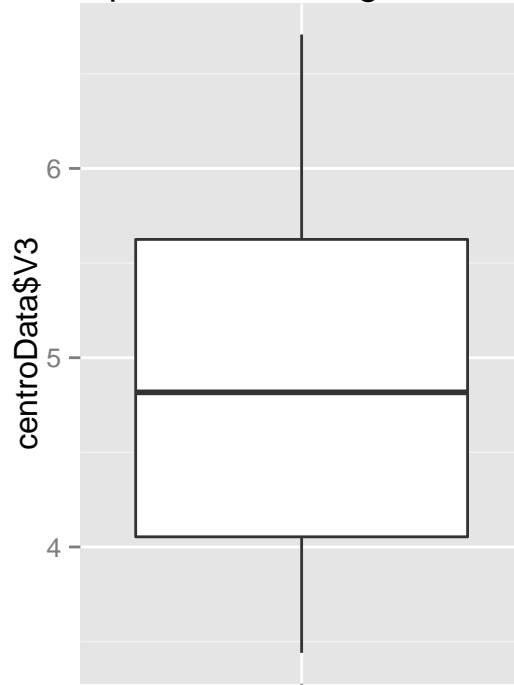
Catole Seg Masculino  
c(output1)

Normal Q-Q Plot



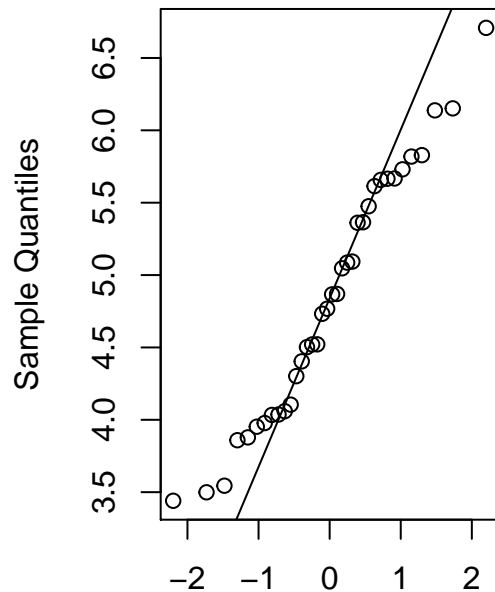
Theoretical Quantiles

Boxplot Centro Seg Masculino



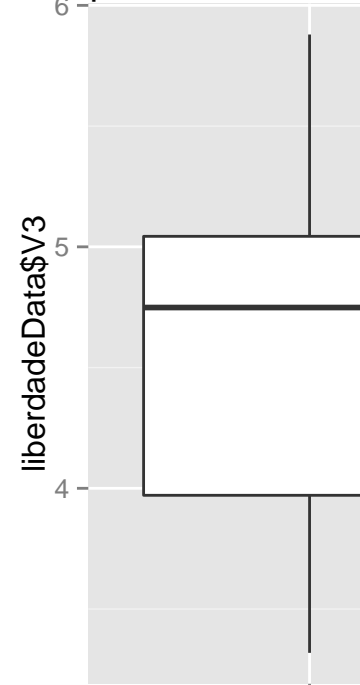
Centro Seg Masculino  
c(output2)

Normal Q-Q Plot



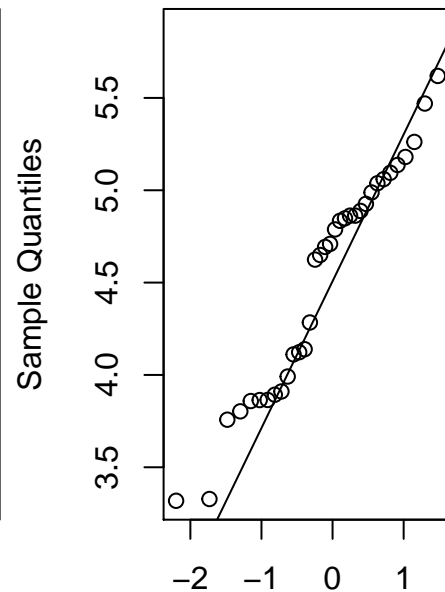
Theoretical Quantiles

Boxplot Liberdade Seg Masculino



Liberdade Seg Masculino  
c(output3)

Normal Q-Q Plot



Theoretical Quantiles



## Casado Agradável

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0554476622410677    two.sided"
## [1] "Welch Two Sample t-test  0.0342545120977424    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.973017372709947    less"
## [1] "Welch Two Sample t-test  0.982872743951129    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0277238311205339    greater"
## [1] "Welch Two Sample t-test  0.0171272560488712    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.755795405534128    two.sided"
## [1] "Welch Two Sample t-test  0.620563157995988    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.377897702767064    less"
## [1] "Welch Two Sample t-test  0.310281578997994    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.626104617384565    greater"
## [1] "Welch Two Sample t-test  0.689718421002006    greater"

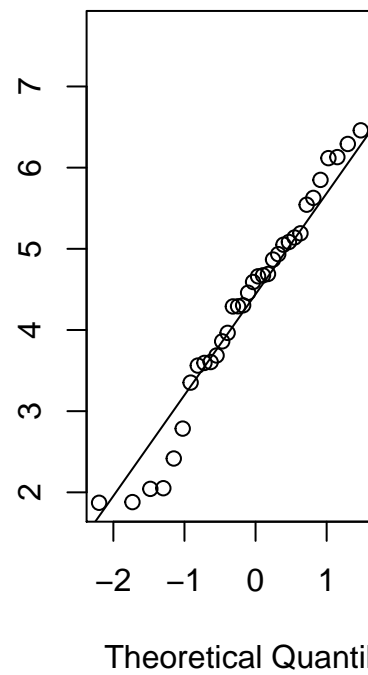
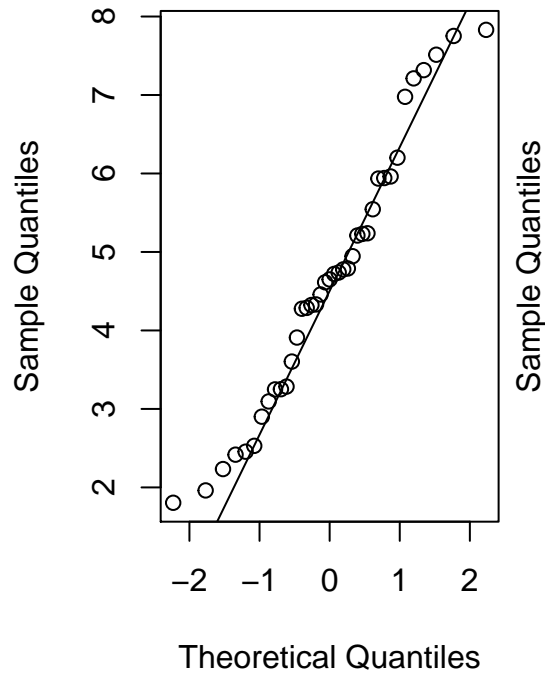
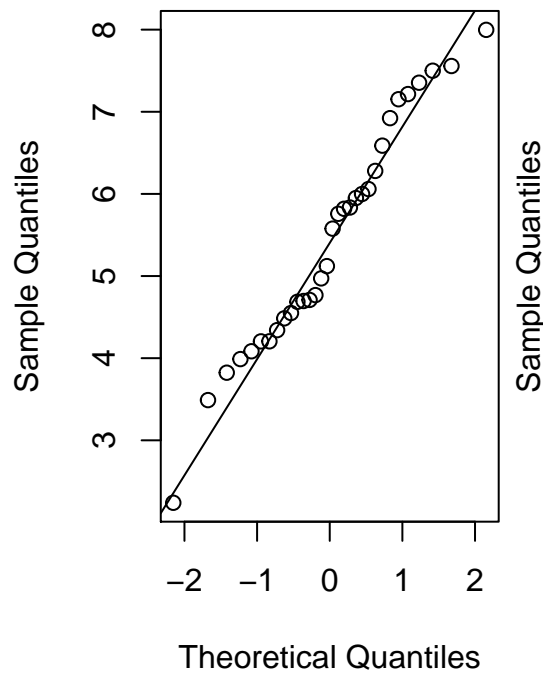
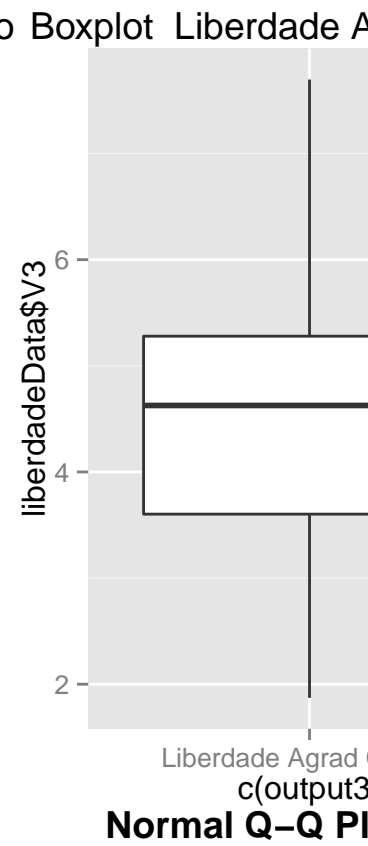
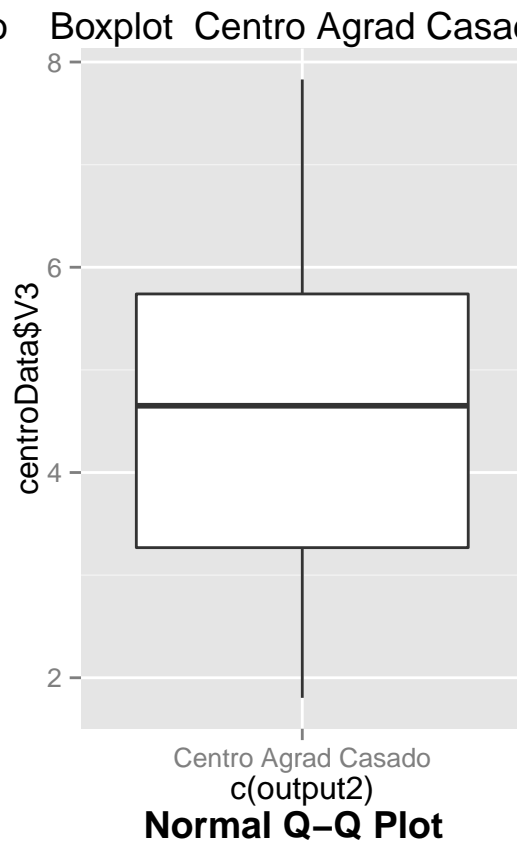
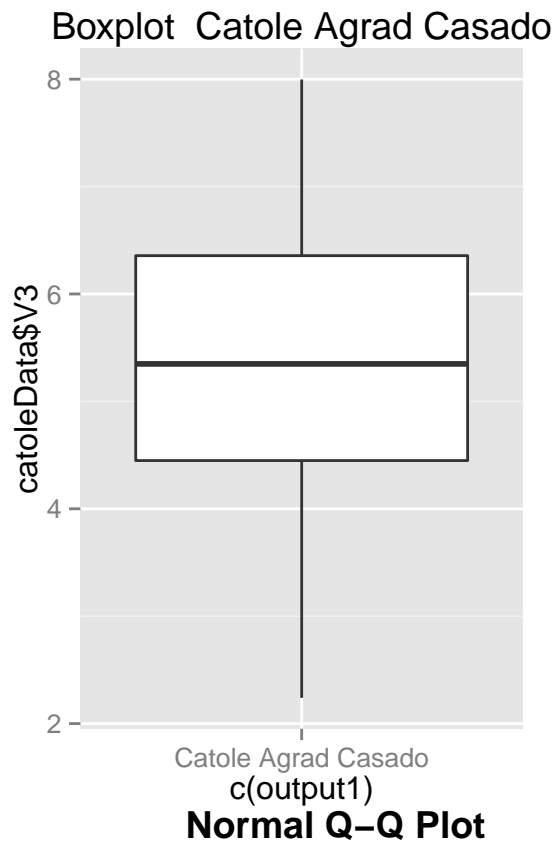
## pdf
## 2
```

### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.015082682933773    two.sided"
## [1] "Welch Two Sample t-test  0.00649984041415667    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.992719218950109    less"
## [1] "Welch Two Sample t-test  0.996750079792922    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0075413414668865    greater"
## [1] "Welch Two Sample t-test  0.00324992020707834    greater"

## pdf
## 2
```

Normalidade Catole, Centro, Liberdade



## Casado Segurança

### Catole x Centro

```
## [1] ">> Equal"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "t",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.0535998686881399    two.sided"
## [1] "Welch Two Sample t-test    0.0405096993022658    two.sided"
## [1] ">> Less"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "l",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.0267999343440699    less"
## [1] "Welch Two Sample t-test    0.0202548496511329    less"
## [1] ">> Greater"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "g",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.973908044595729    greater"
## [1] "Welch Two Sample t-test    0.979745150348867    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "t",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.0196371218749612    two.sided"
## [1] "Welch Two Sample t-test    0.00709030331925526    two.sided"
## [1] ">> Less"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "l",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.00981856093748059    less"
## [1] "Welch Two Sample t-test    0.00354515165962763    less"
## [1] ">> Greater"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "g",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.990456196680984    greater"
## [1] "Welch Two Sample t-test    0.996454848340372    greater"

## pdf
## 2
```

## Catole x Liberdade

```
## [1] ">> Equal"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "t",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.96080152028575    two.sided"
## [1] "Welch Two Sample t-test    0.632673451002807    two.sided"
## [1] ">> Less"

## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "l",
## paired = F): cannot compute exact p-value with ties

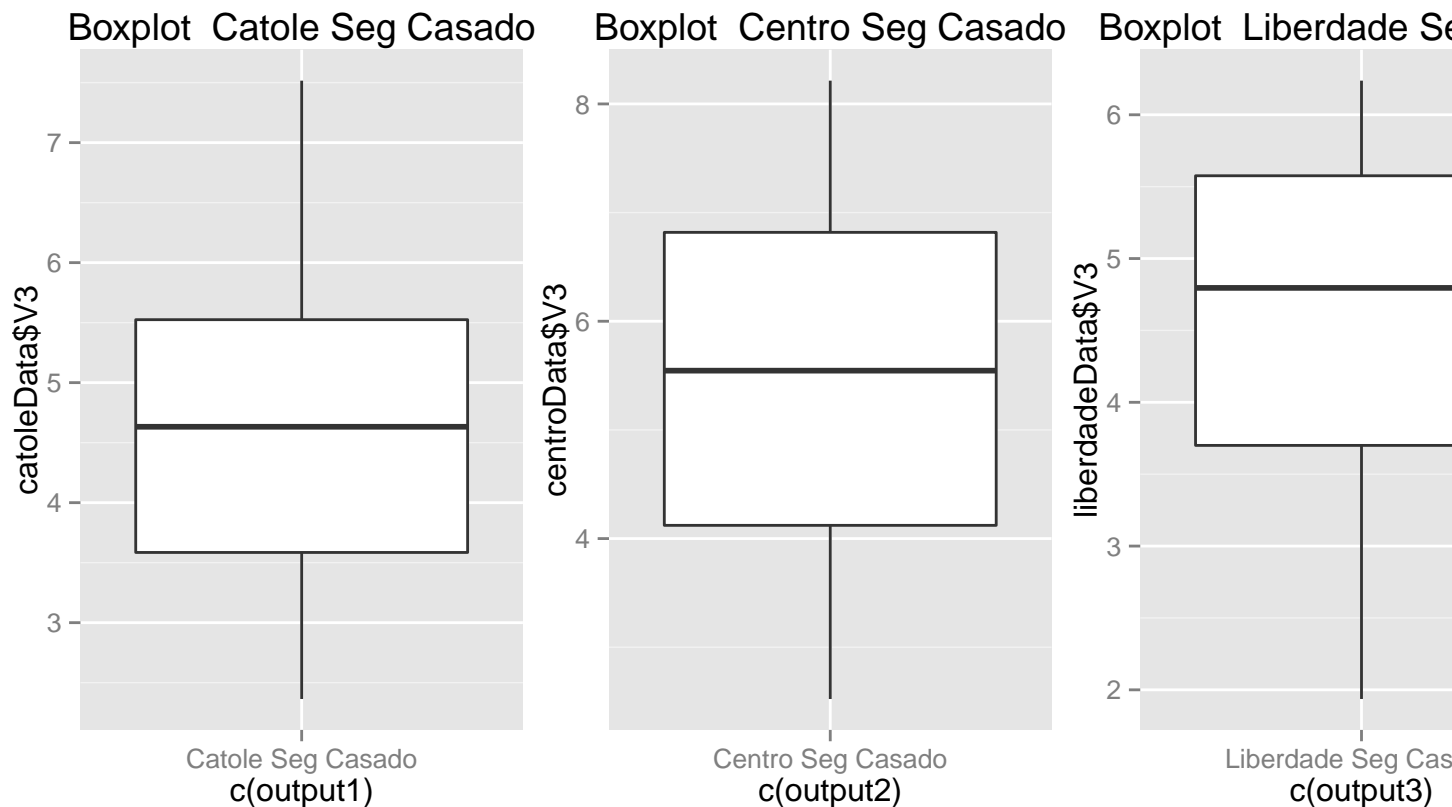
## [1] "Wilcoxon rank sum test with continuity correction    0.524493504840035    less"
## [1] "Welch Two Sample t-test    0.683663274498597    less"
## [1] ">> Greater"

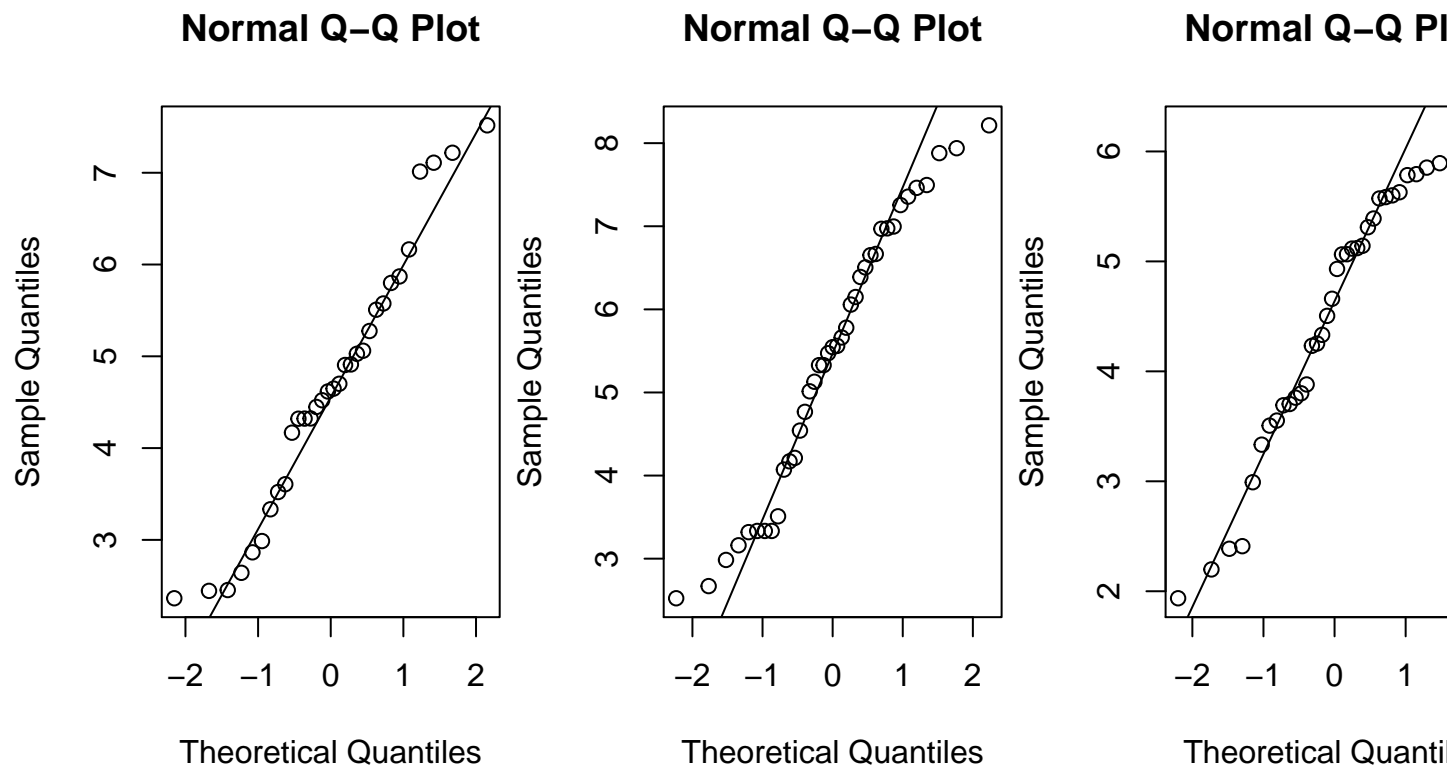
## Warning in wilcox.test.default(data1$V3, data2$V3, alternative = "g",
## paired = F): cannot compute exact p-value with ties

## [1] "Wilcoxon rank sum test with continuity correction    0.480400760142875    greater"
## [1] "Welch Two Sample t-test    0.316336725501403    greater"

## pdf
## 2
```

## Normalidade Catole, Centro, Liberdade





## Solteiro Agradável

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    4.45813127779142e-05    two.sided"
## [1] "Welch Two Sample t-test  4.98729415992058e-05    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.999978918538355    less"
## [1] "Welch Two Sample t-test    0.9999750635292    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    2.22906563889571e-05    greater"
## [1] "Welch Two Sample t-test    2.49364707996029e-05    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0487543525771993    two.sided"
## [1] "Welch Two Sample t-test    0.0822107146120165    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.976234102723025    less"
## [1] "Welch Two Sample t-test    0.958894642693992    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0243771762885997    greater"
## [1] "Welch Two Sample t-test    0.0411053573060082    greater"
```

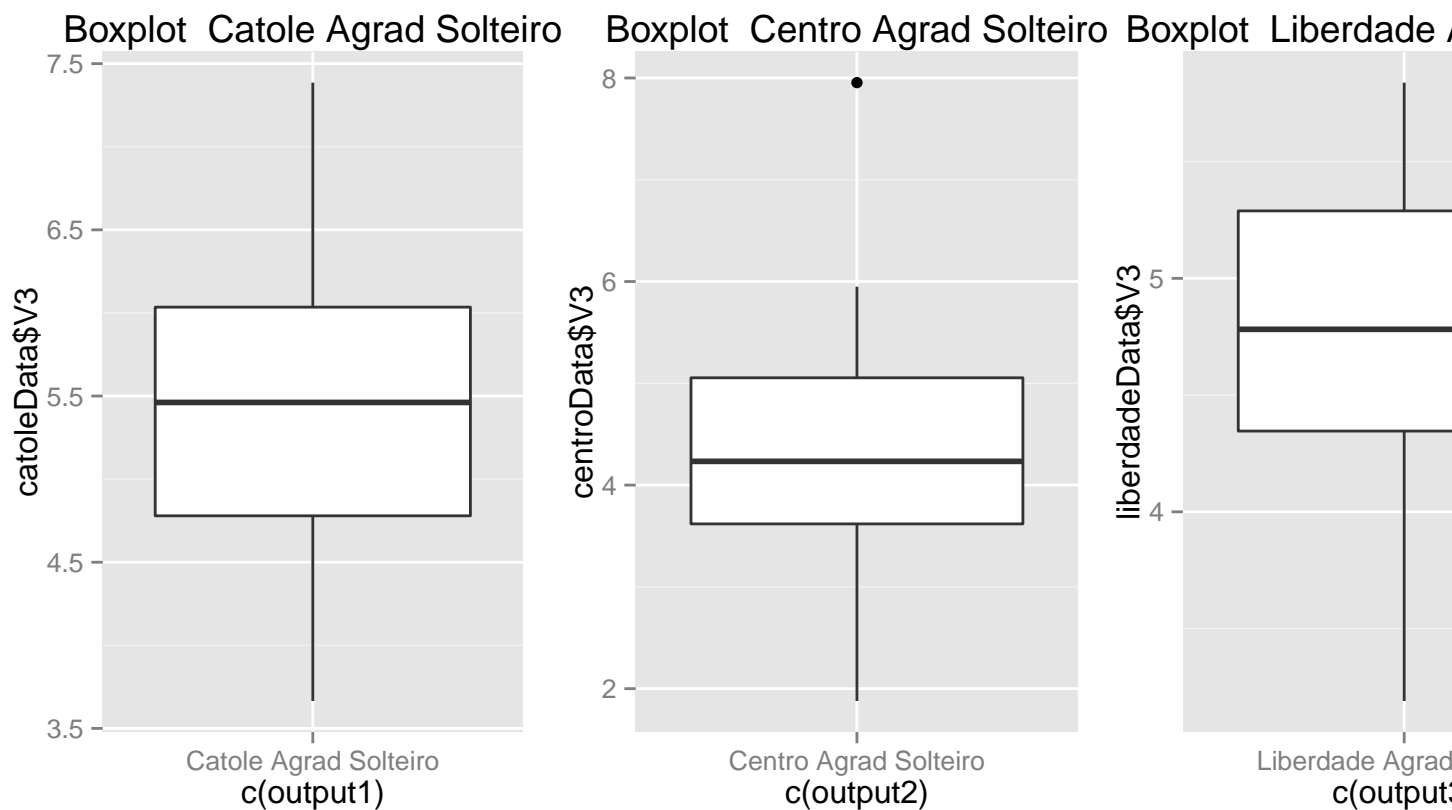
```
## pdf
## 2
```

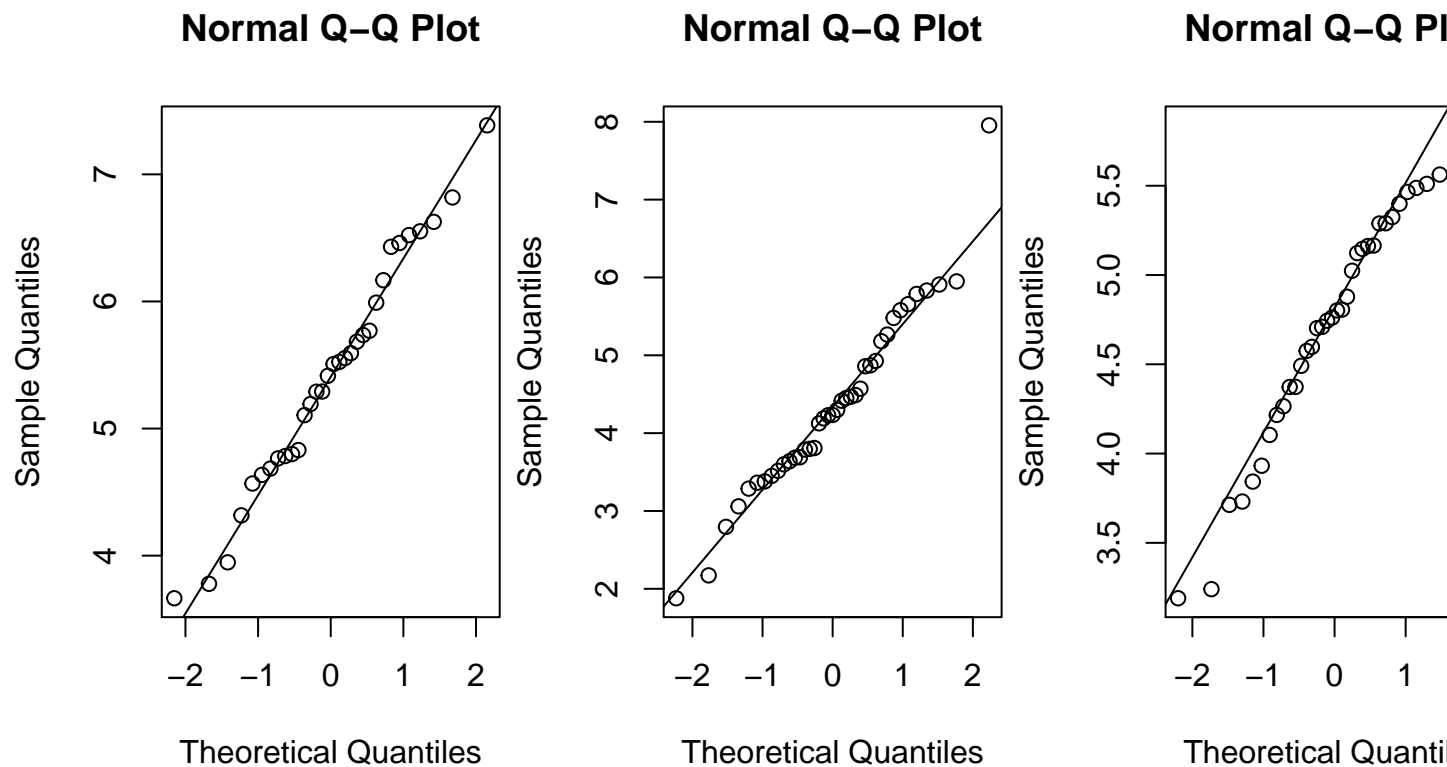
### Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test  0.00161947521500355  two.sided"
## [1] "Welch Two Sample t-test  0.000996961322416915  two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test  0.999225853301825  less"
## [1] "Welch Two Sample t-test  0.999501519338791  less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test  0.000809737607501773  greater"
## [1] "Welch Two Sample t-test  0.000498480661208457  greater"
```

```
## pdf
## 2
```

### Normalidade Catole, Centro, Liberdade





## Solteiro Segurança

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.53871273748979    two.sided"
## [1] "Welch Two Sample t-test  0.455761002231471    two.sided"
## [1] ">>> Less"
## [1] "Wilcoxon rank sum test    0.734431340961134    less"
## [1] "Welch Two Sample t-test  0.772119498884265    less"
## [1] ">>> Greater"
## [1] "Wilcoxon rank sum test    0.269356368744895    greater"
## [1] "Welch Two Sample t-test  0.227880501115735    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.684782392546442    two.sided"
## [1] "Welch Two Sample t-test  0.527019336803738    two.sided"
## [1] ">>> Less"
## [1] "Wilcoxon rank sum test    0.342391196273221    less"
## [1] "Welch Two Sample t-test  0.263509668401869    less"
## [1] ">>> Greater"
## [1] "Wilcoxon rank sum test    0.66147687662484    greater"
## [1] "Welch Two Sample t-test  0.736490331598131    greater"
```

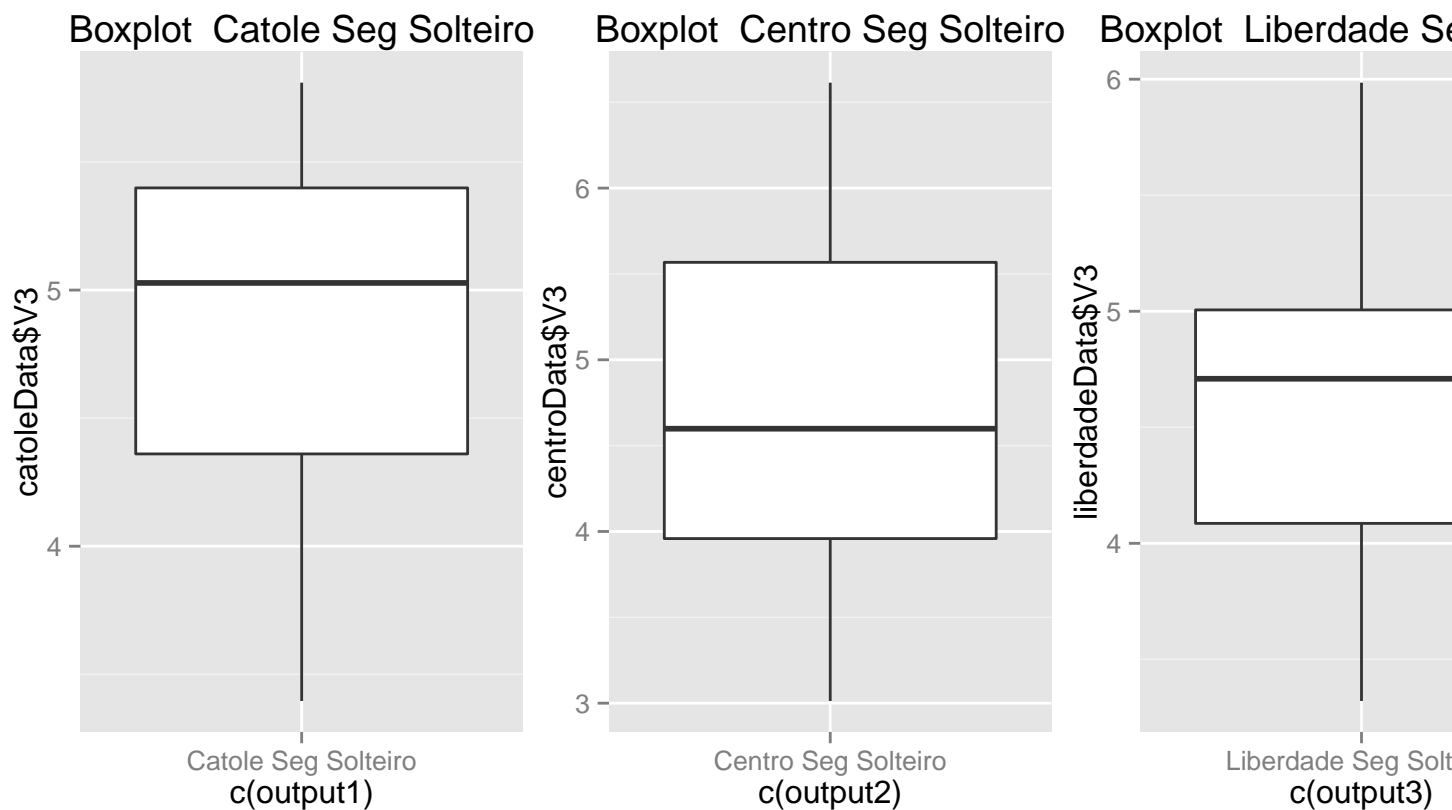
```
## pdf
## 2
```

## Catole x Liberdade

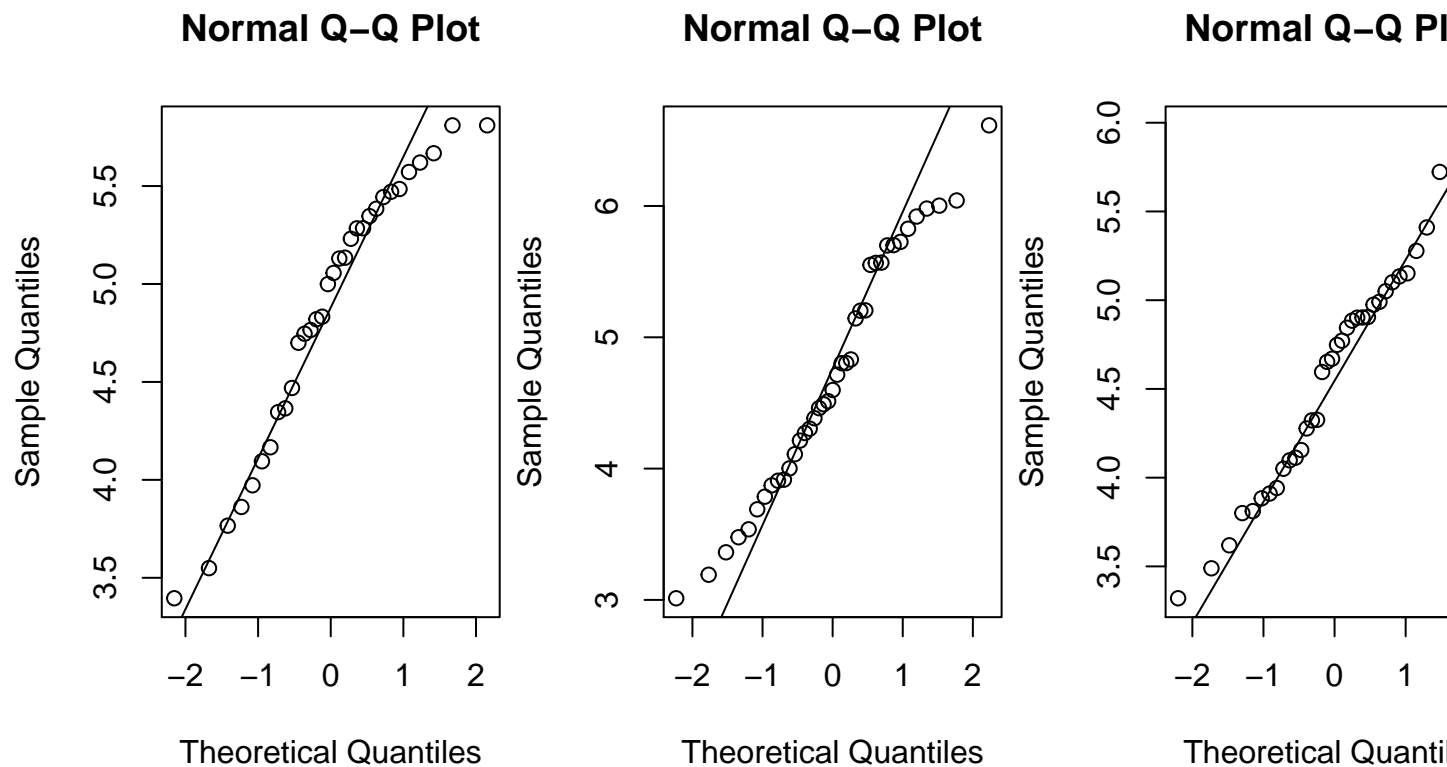
```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.0799226749380061    two.sided"
## [1] "Welch Two Sample t-test   0.114964540114591    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.961100163954063    less"
## [1] "Welch Two Sample t-test   0.942517729942704    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0399613374690031    greater"
## [1] "Welch Two Sample t-test   0.0574822700572957    greater"
```

```
## pdf
## 2
```

## Normalidade Catole, Centro, Liberdade







Medio Agradável

Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.105431214941046    two.sided"
## [1] "Welch Two Sample t-test  0.0858297020501407    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.948697112912117    less"
## [1] "Welch Two Sample t-test  0.95708514897493    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0527156074705231    greater"
## [1] "Welch Two Sample t-test  0.0429148510250703    greater"

## pdf
## 2
```

Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.108282219657146    two.sided"
## [1] "Welch Two Sample t-test  0.101053041281592    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.947208207926693    less"
## [1] "Welch Two Sample t-test  0.949473479359204    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.0541411098285731    greater"
## [1] "Welch Two Sample t-test  0.0505265206407962    greater"
```

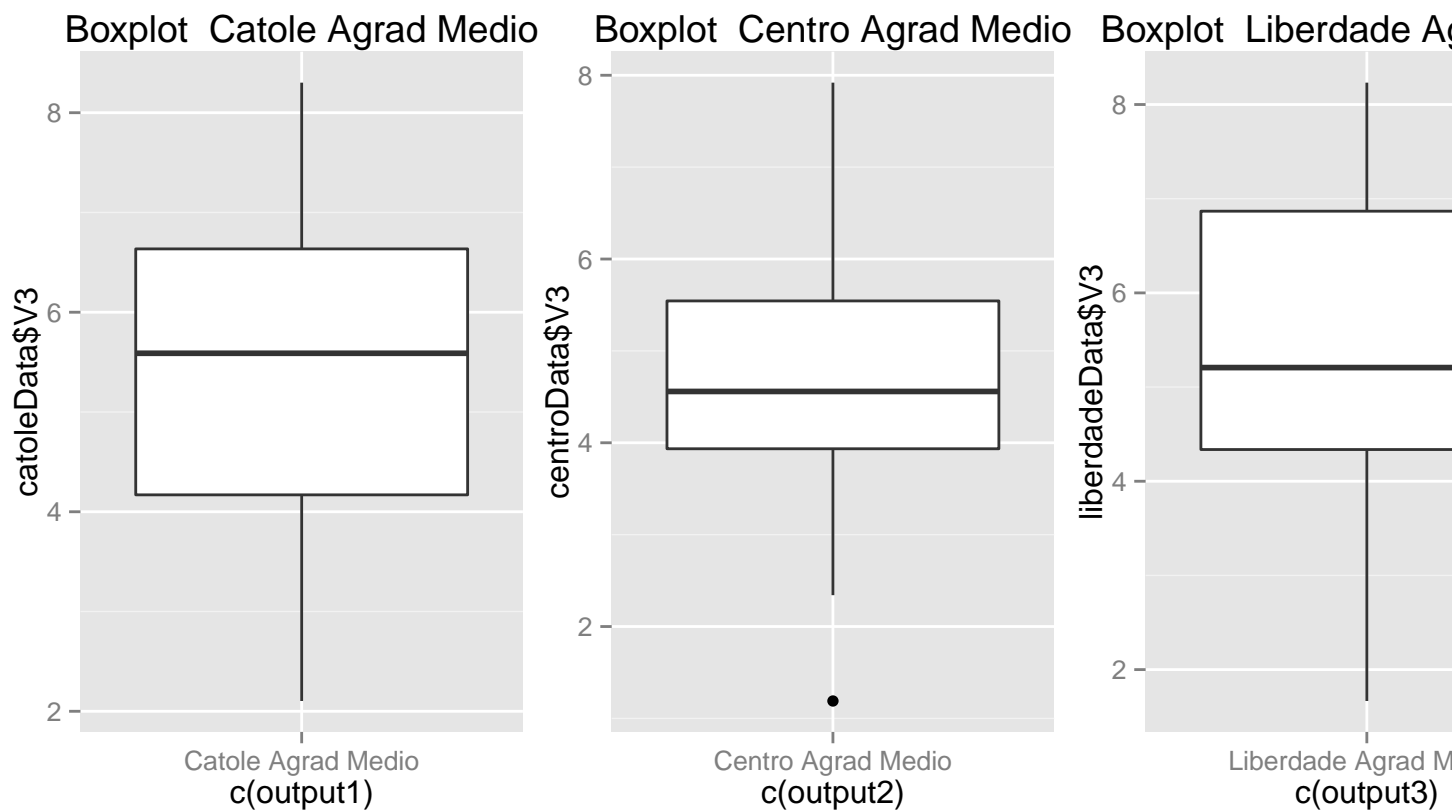
```
## pdf
## 2
```

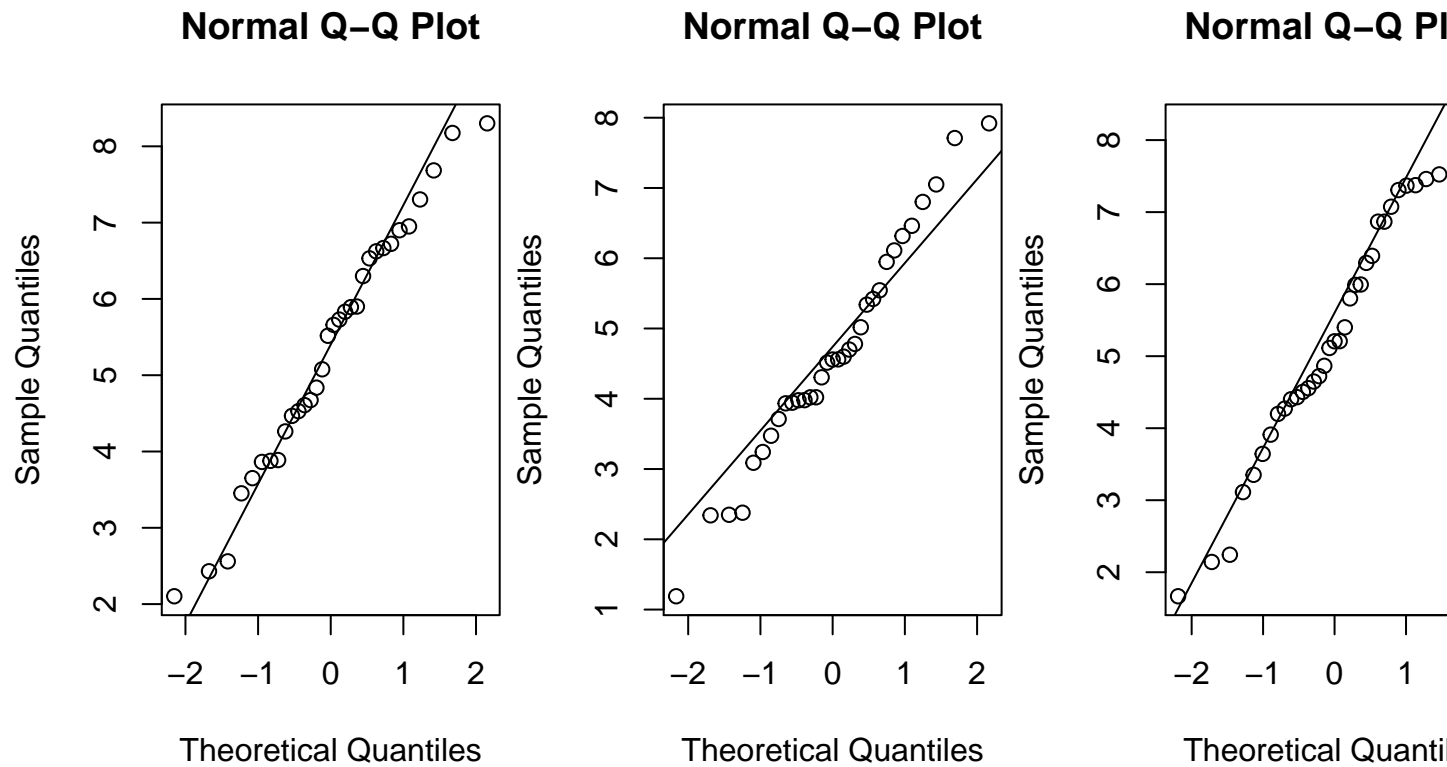
## Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.965194883813257    two.sided"
## [1] "Welch Two Sample t-test  0.935421475953879    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.482597441906628    less"
## [1] "Welch Two Sample t-test  0.53228926202306    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.522370145067539    greater"
## [1] "Welch Two Sample t-test  0.46771073797694    greater"
```

```
## pdf
## 2
```

## Normalidade Catole, Centro, Liberdade





## Medio Segurança

### Catole x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.280631317637298    two.sided"
## [1] "Welch Two Sample t-test  0.504800019327611    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.863347649394573    less"
## [1] "Welch Two Sample t-test  0.747599990336194    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.140315658818649    greater"
## [1] "Welch Two Sample t-test  0.252400009663806    greater"

## pdf
## 2
```

### Liberdade x Centro

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.314771396990182    two.sided"
## [1] "Welch Two Sample t-test  0.399992568767458    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.846300244948038    less"
## [1] "Welch Two Sample t-test  0.800003715616271    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.157385698495091    greater"
## [1] "Welch Two Sample t-test  0.199996284383729    greater"
```

```
## pdf
## 2
```

## Catole x Liberdade

```
## [1] ">> Equal"
## [1] "Wilcoxon rank sum test    0.905716906963538    two.sided"
## [1] "Welch Two Sample t-test  0.784787729672975    two.sided"
## [1] ">> Less"
## [1] "Wilcoxon rank sum test    0.552077242745191    less"
## [1] "Welch Two Sample t-test  0.392393864836487    less"
## [1] ">> Greater"
## [1] "Wilcoxon rank sum test    0.452858453481769    greater"
## [1] "Welch Two Sample t-test  0.607606135163513    greater"
```

```
## pdf
## 2
```

## Normalidade Catole, Centro, Liberdade

