Task p. 16-2 / Anwendung S. 16-2

FΚ

automatic

Working directory

```
> setwd("D:/kronthafranz/Documents/01Lehre/06Quantitative Forschungsmethoden dt en")
```

Load data

> load("D:/kronthafranz/Documents/01Lehre/06Quantitative Forschungsmethoden dt en/04Parametric and nonparametric testing/growth.RData")

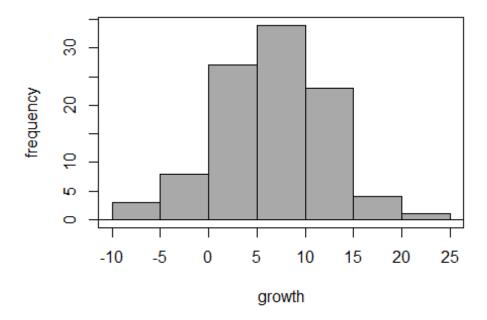
Define factor

```
> growth <- within(growth, {
+ f_sector <- as.factor(sector)
+ })</pre>
```

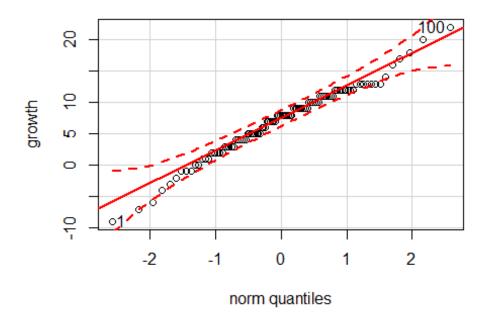
Descriptive statistics

Normal distribution

```
> with(growth, Hist(growth, scale="frequency", breaks="Sturges",
col="darkgray"))
```



> with(growth, qqPlot(growth, dist="norm", id.method="y", id.n=2,
labels=rownames(growth)))



1 100 1 100

```
> normalityTest(~growth, test="shapiro.test", data=growth)

Shapiro-Wilk normality test

data: growth
W = 0.98209, p-value = 0.1927
```

Same variance

t-Test independent samples

Interpretation:

Do not reject H0, there is no difference in growth rates between service sector firms and industrial sector firms