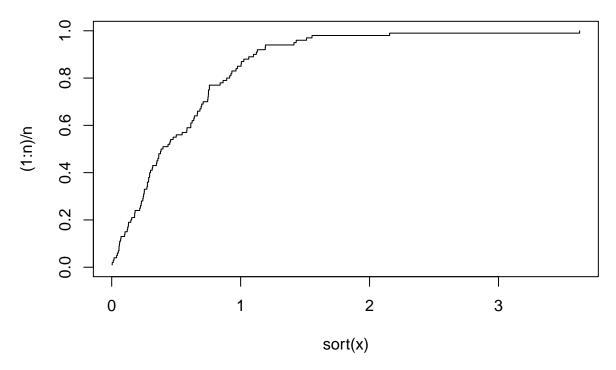
hw2 sol

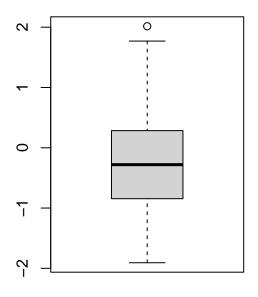
Weihao Wang

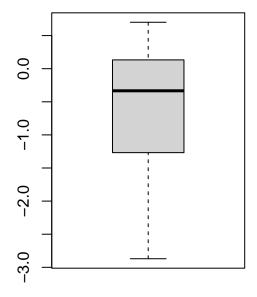
```
#HW2 solution
#1
#1.1
pnorm(16, mean = 15, sd = 3)
## [1] 0.6305587
#0.6305587
#1.2
pchisq(8, df = 10)
## [1] 0.3711631
#0.3711631
#1.3
dbinom(5, size = 10, prob = 0.4)
## [1] 0.2006581
#0.2006581
#1.4
dpois(5, lambda = 3)
## [1] 0.1008188
#0.1008188
#2
accid.age \leftarrow matrix(c(25, 18, 13, 6, 121, 92, 130, 87), nrow = 4)
rownames(accid.age) <- c("18-20", "21-23", "24-25", ">25")
colnames(accid.age) <- c("Yes", "No")</pre>
names(dimnames(accid.age)) <- c("Age", "Accidents")</pre>
accid.age
##
          Accidents
          Yes No
## Age
    18-20 25 121
##
##
     21-23 18 92
##
     24-25 13 130
     >25
            6 87
##
```

```
#3
x <- rexp(100, rate =2)
n <- length(x)
plot(sort(x), (1:n)/n, type = "s", ylim = c(0,1))</pre>
```



```
#4
x <- rnorm(50)
par(mfrow = c(1,2))
boxplot(x)
boxplot(log(abs(x)))</pre>
```





```
#5
#5.1
library(ISwR)
data(react)
hist(react)
#5.2
#install.pacages("MASS")
library(MASS)
truehist(react)
```

Histogram of react

