Paul Kogan-HW1

Paul Kogan

2021/9/14

1

```
cat("a)\t", pnorm(16, mean = 15, sd = 3, lower.tail = FALSE), "\nb)\t",
    pchisq(8, 10), "\nc)\t", dbinom(5, 10, 0.4), "\nd)\t", dpois(5, 3))
```

```
## a)    0.3694413
## b)    0.3711631
## c)    0.2006581
## d)    0.1008188
```

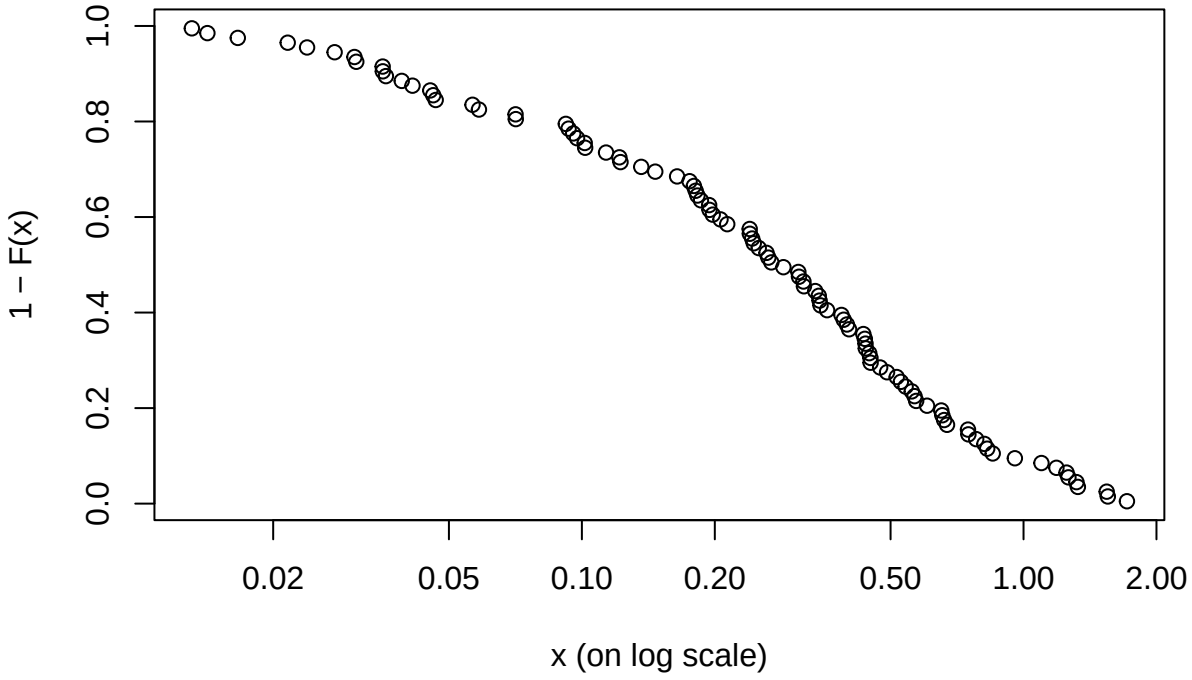
2

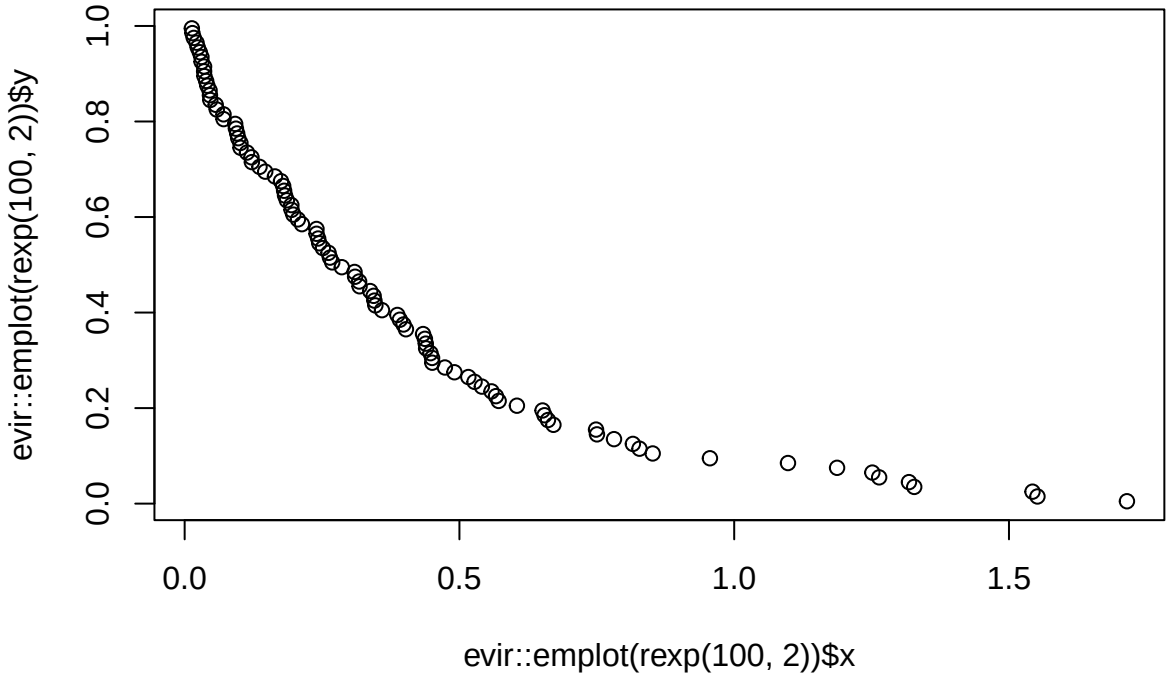
```
table <- as.table(array(c(25, 18, 13, 6, 121, 92, 130, 87), dim = c(4, 2),
                dimnames = list(c("18-20", "21-23", "24-25", ">25"),
                c("Yes", "No"))))
names(attributes(table)$dimnames) <- c("Age", "Accidents")
table
```

```
##        Accidents
## Age     Yes  No
##   18-20  25 121
##   21-23  18  92
##   24-25  13 130
##   >25     6  87
```

3

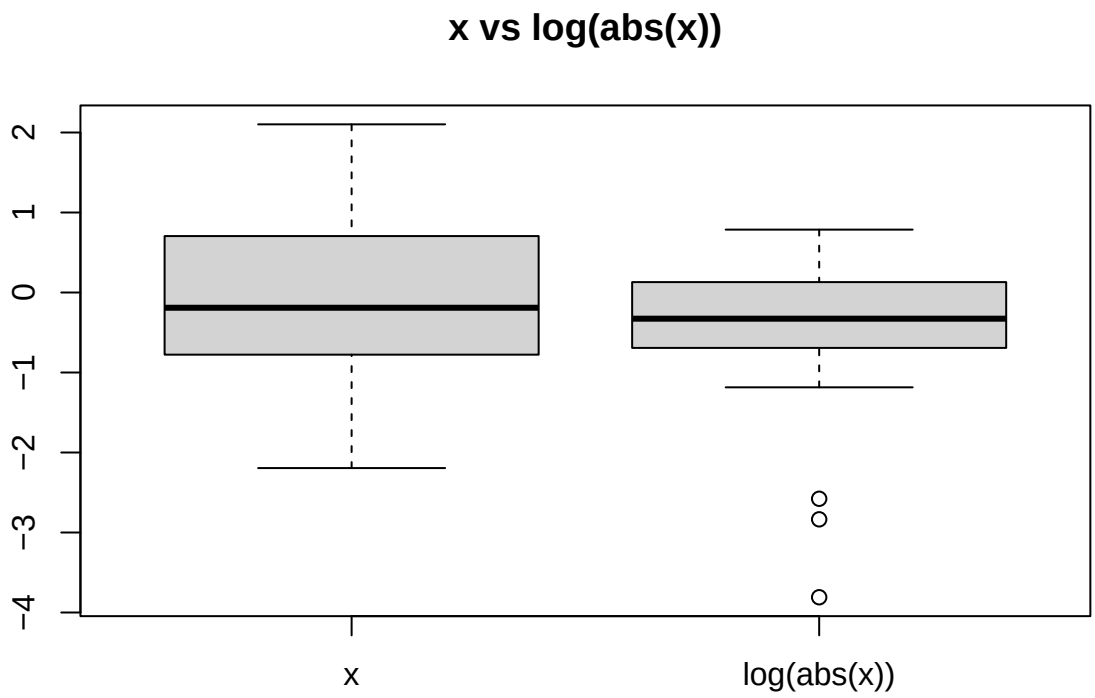
```
plot(evir::emplot(rexp(100, 2)))
```


1 – F(x)
0.0
0.2
0.4
0.6
0.8
1.0
0.02
0.05
0.10
0.20
0.50
1.00
2.00
x (on log scale)



4

```
x <- rnorm(50)
boxplot(x, log(abs(x)), main = "x vs log(abs(x))",
        names = c("x", "log(abs(x))"))
```

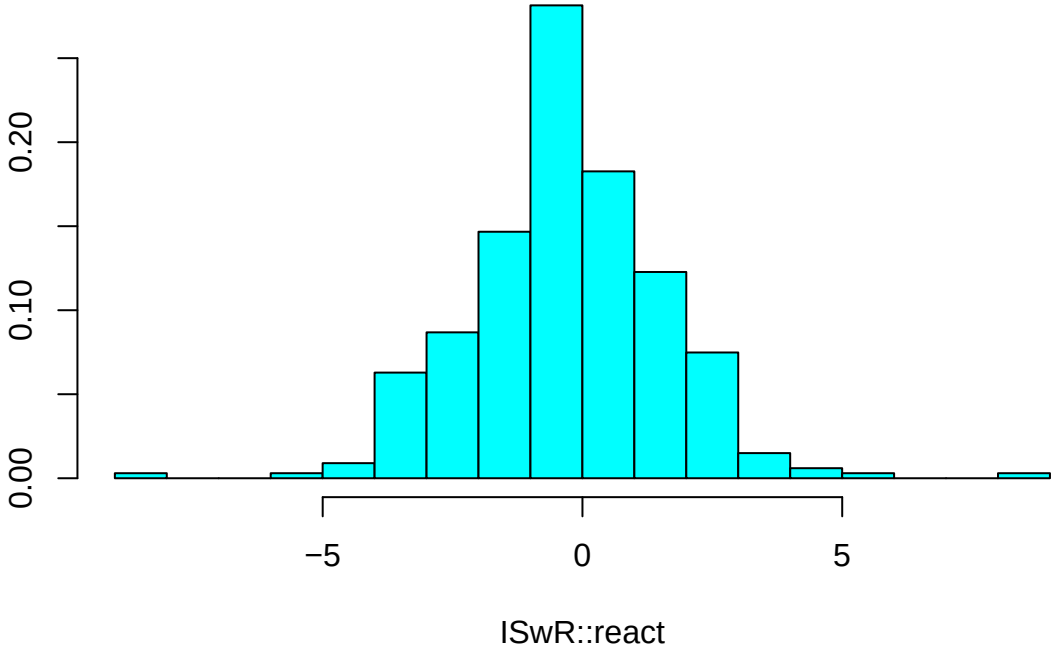


5 *a*

```
hist(ISwR::react)
```

5 *b*

```
MASS::truehist(ISwR::react)
```


0.00
0.10
0.20
−5
0
5
ISwR::react