Oefening 4.5

Opgave

Bereken ook elke keer het gevraagde gebied.

Oplossing

A

$P(Z < 1.33)$

```r
pnorm(1.33)
```

```
## [1] 0.9082409
```

B

$P(Z > 1.33)$

```r
1 - pnorm(1.33)
```

```
## [1] 0.09175914
```

```r
# of
pnorm(1.33, lower.tail = FALSE)
```

```
## [1] 0.09175914
```

C

$P(Z < -1.33)$

```r
pnorm(-1.33)
```

```
## [1] 0.09175914
```

D

$P(Z > -1.33)$

```r
1 - pnorm(-1.33)
```

```
## [1] 0.9082409
```

```r
# of
pnorm(-1.33, lower.tail = FALSE)
```

```
## [1] 0.9082409
```

E

$P(Z < 0.45)$

```r
pnorm(0.45)
```

```
## [1] 0.6736448
```

F

$P(Z > -1.05)$

```r
1 - pnorm(-1.05)
```

```
## [1] 0.8531409
```

```r
# of
pnorm(-1.05, lower.tail = FALSE)
```

```
## [1] 0.8531409
```

G

$P(Z < 0.65)$

```r
pnorm(0.65)
```

```
## [1] 0.7421539
```

H

$P(-0.45 < Z < 1.20)$

```r
kans1 <- pnorm(-0.45)
kans2 <- pnorm(1.20)
kans2 - kans1
```

```
## [1] 0.5585751
```

I

$P(-1.35 < Z < -0.10)$

```r
kans1 <- pnorm(-1.35)
kans2 <- pnorm(-0.10)
kans2 - kans1
```

```
## [1] 0.3716642
```

J

$P(-2.10 < Z < -0.90)$

```r
kans1 <- pnorm(-2.10)
kans2 <- pnorm(-0.90)
kans2 - kans1
```

```
## [1] 0.1661957
```