Domača naloga 5

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Zagon potrebnih knjižnic

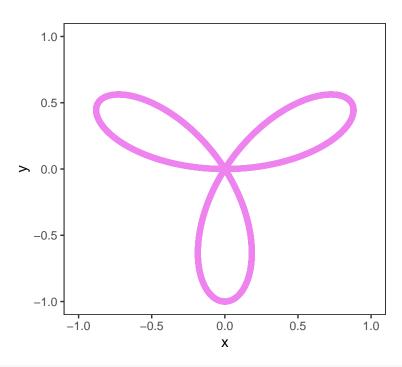
```
library(tidyverse)
library(cowplot)
```

generiranje potrebnih podatkov in uporaba sapply() funkcije

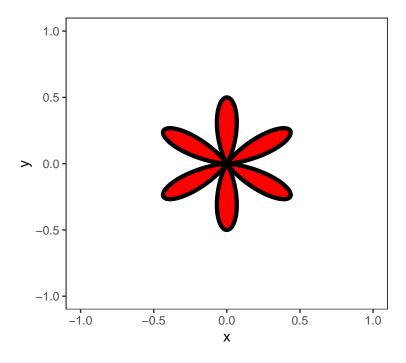
```
# we generate the phi values (r=1 in all cases)
phi \leftarrow seq(0, 2*pi, 0.001)
# creating functions to use with sapply()
convert_to_x1 <- function(phi) {</pre>
  r < -1
  return(r*cos(phi)*sin(3*phi))
convert_to_y1 <- function(phi) {</pre>
  r \leftarrow 1
  return(r*sin(phi)*sin(3*phi))
convert_to_x2 <- function(phi) {</pre>
  r < -0.5
  return(r*cos(phi)*sin(3*phi)^2)
convert_to_y2 <- function(phi) {</pre>
  r < -0.5
  return(r*sin(phi)*sin(3*phi)^2)
# usage of sapply function to convert list of phi values to x and y coordinates
x1 <- sapply(phi, convert_to_x1)</pre>
y1 <- sapply(phi, convert_to_y1)</pre>
x2 <- sapply(phi, convert_to_x2)</pre>
y2 <- sapply(phi, convert_to_y2)</pre>
# creating tibbles of the generated data
flower3 <- tibble(x=x1, y=y1)</pre>
flower6 <- tibble(x=x2, y=y2)</pre>
```

Risanje slik.

Trilistni cvet



Šestlistni cvet



Združevanje slik v eno sliko.

