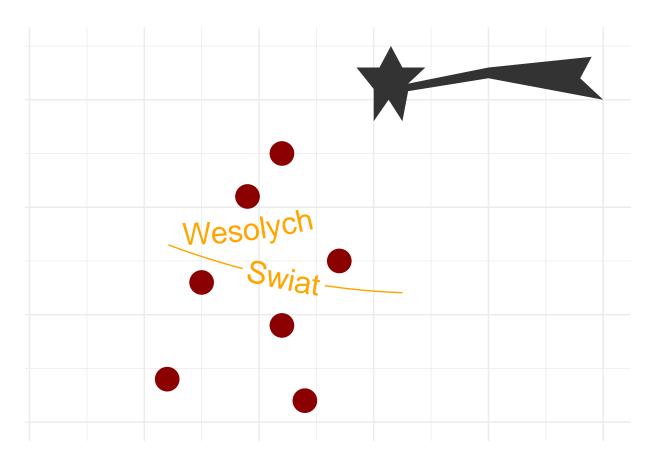
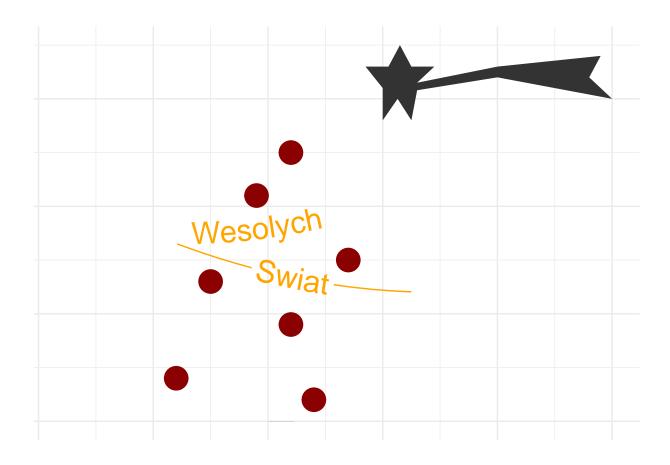
hw7

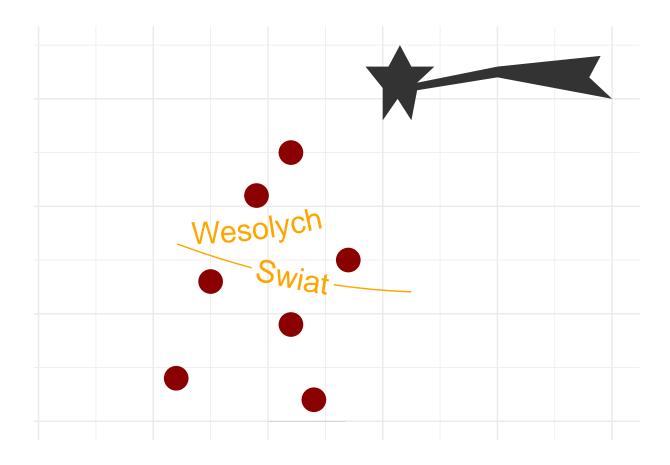
library(ggplot2)

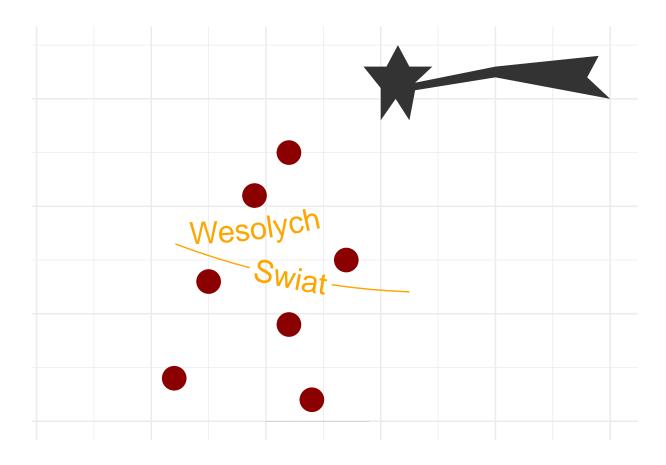
```
## Warning: pakiet 'ggplot2' został zbudowany w wersji R 4.1.3
library(gganimate)
## Warning: pakiet 'gganimate' został zbudowany w wersji R 4.1.3
library(geomtextpath)
tree <- data.frame(</pre>
 x = c(0,1.8,0.7,1.5,0.5,1.2,0,-1.2,-0.5,-1.5,-0.7,-1.8,0),
 y = c(0,0,1,1,2,2,3,2,2,1,1,0,0),
 z = c(1,2,3,4,5,6,7,8,9,10,11,12,13)
balls <- data.frame(</pre>
 x = c(0.4, -0.1, -0.8, 0.7, 0.2, -0.5, 0.2),
 y = c(0.2, 2.1, 0.4, 1.5, 0.9, 1.3, 2.5)
star <- data.frame(</pre>
x = c(1, 1.13, 1.25, 1.3, 2, 3, 2.8, 2.9, 2, 1.3, 1.45, 1.25, 1.15, 1.05, 0.85, 1, 1),
 y = c(2.8, 3, 2.8, 3.08, 3.2, 3, 3.2, 3.4, 3.3, 3.15, 3.3, 3.3, 3.5, 3.3, 3.3, 3.1, 2.8)
t = seq(-0.7, 0.5, by=0.1)
text1 <- data.frame(</pre>
 x = t,
y = 1.75+1/10*(t+0.76)^2
 t = "Wesołych"
text2 <- data.frame(</pre>
 x = t*1.7+0.4,
 y = 1.2+1/10*(t*1.6-1)^2
 t = "Świąt"
ggplot(tree, aes(x,y)) +
  geom_polygon(fill = "darkgreen") +
 geom_polygon(data = star, aes(x,y))+
  geom_point(data = balls, aes(x=x, y=y), size = 8, color = "darkred")+
```





Wesolych
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