BIO144

Sheet 1

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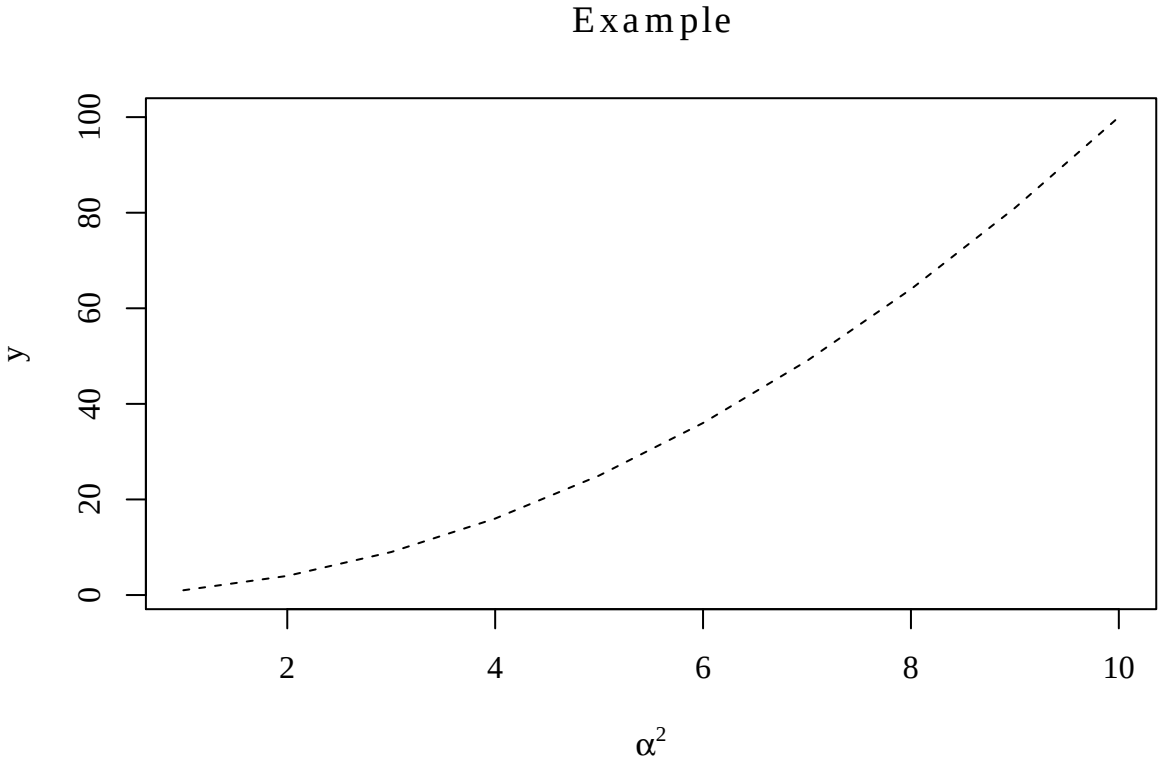
Exercise 1

a

```
x <- 1:10
y <- x^2
plot(x,y, main="Example",xlab = TeX('$\\alpha^2$'), family="LM Roman 10", "l", lty=2)
```

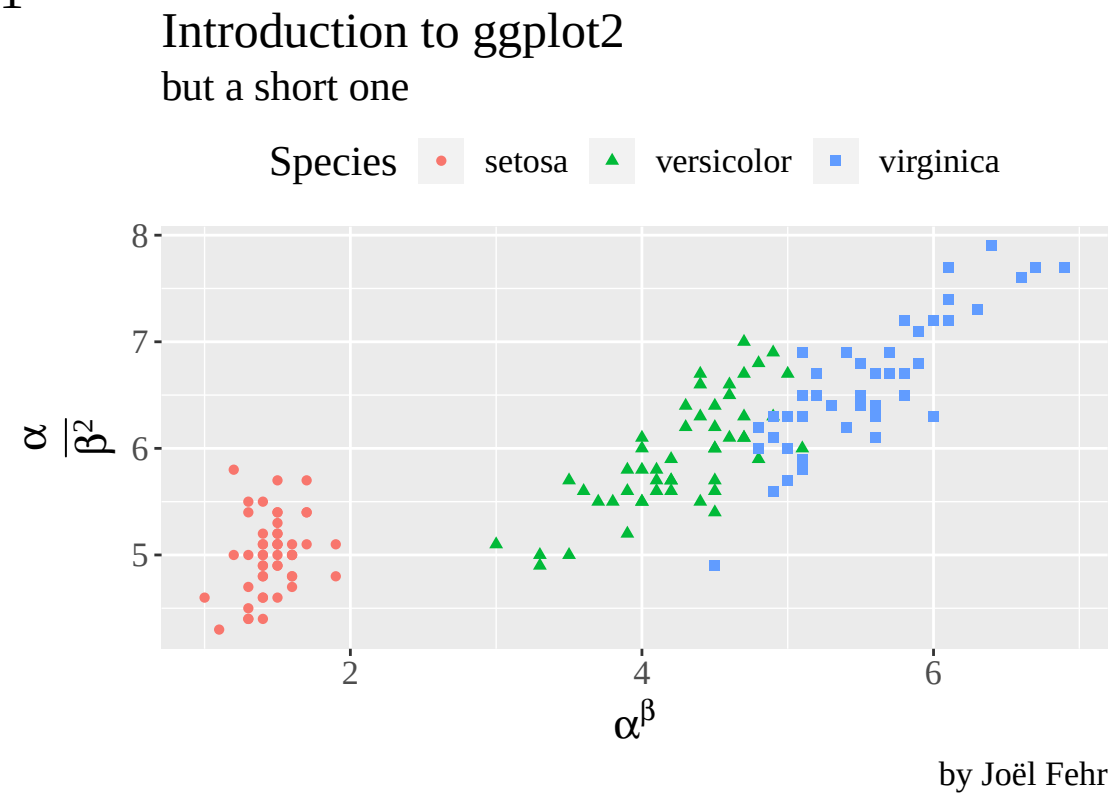


b

$X_1 \sim \mathcal{N}(\mu, \sigma)$

```
ggplot(data=iris, aes(y=Sepal.Length, x =Petal.Length, col = Species,
                      shape = Species)) +
    geom_point() +
    labs(title = "Introduction to ggplot2", subtitle = "but a short one",
             caption = "by Joël Fehr", tag="Plot 1",y= TeX('$\\frac{\\alpha}{\\beta^2}$'),
             x = TeX('$\\alpha^\\beta$'), legend= "Legend") +
    theme(legend.position="top",text=element_text(size=16,
                                                  family="serif"))
```

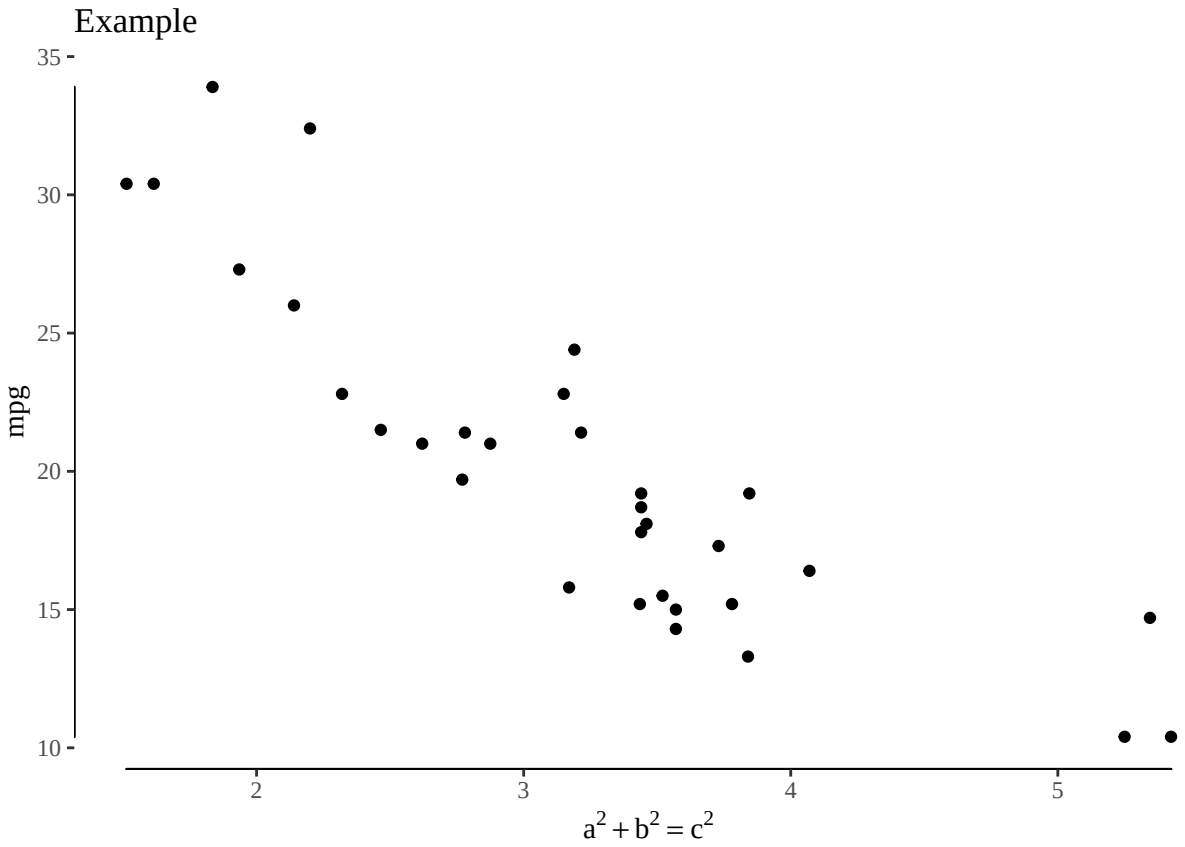
Plot 1




```
# you can also use theme(legend.position = c(0.7, 0.2)
```

```
p <- ggplot(data=mtcars, aes(x = wt, y = mpg)) +
  geom_point() +
  labs(x = TeX('$\\a^2 + b^2 = c^2$'), title = 'Example')

p + geom_rangeframe() +
  theme_tufte()
```


Example
35
30
25
20
15
10
mpg
2
3
4
5
$a^2 + b^2 = c^2$