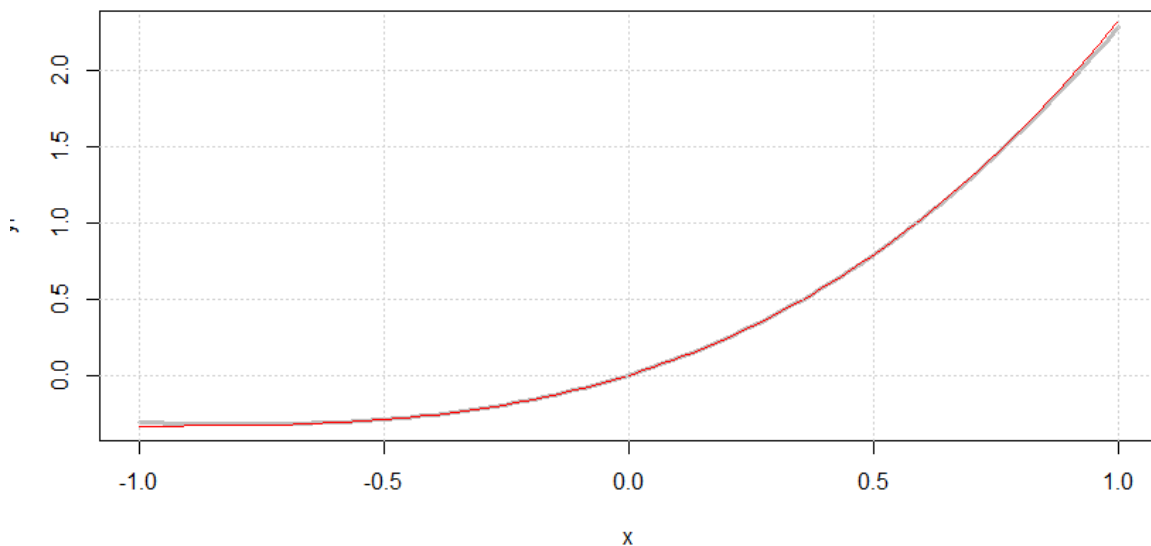


```

> cat("Suma ",suma," Error ",error)
Suma 136 Error 1.6
> |
1. B)
1 #variables y valores
2 n <- 4
3 suma <- 0
4 error <- 0
5 Matriz <- matrix(1:100, nrow = n, ncol = n)
6
7
8 #ciclo for
9 for(i in 1: n){
10   for (j in 1: n){
11     suma = suma + Matriz[i,j]
12     error = error+0.1
13   }
14 }
15 cat("Suma ",suma," Error ",error)
16
17
18
19
20 |

```

3 b) Basado en librería de Python: <https://rdrr.io/rforge/pracma/man/taylor.html>



```

> p
[1] 0.3333332 1.0000000 1.0000000 0.0000000
,

```

```

1 library(pracma)
2
3
4 f <- function(x) exp(x)*sin(x)
5 p <- taylor(f, 0, 3)
6
7 x <- seq(-1.0, 1.0, length.out=100)
8 yf <- f(x)
9 yp <- polyval(p, x)
10 plot(x, yf, type = "l", col = "gray", lwd = 3)
11 lines(x, yp, col = "red")
12 grid()
13
14
15 p|

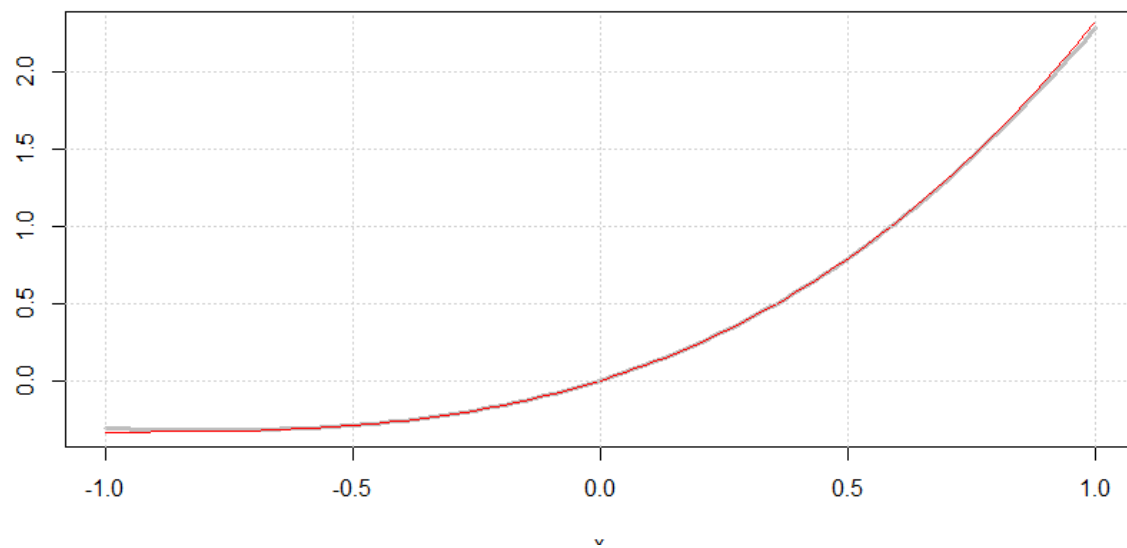
```

0.0005

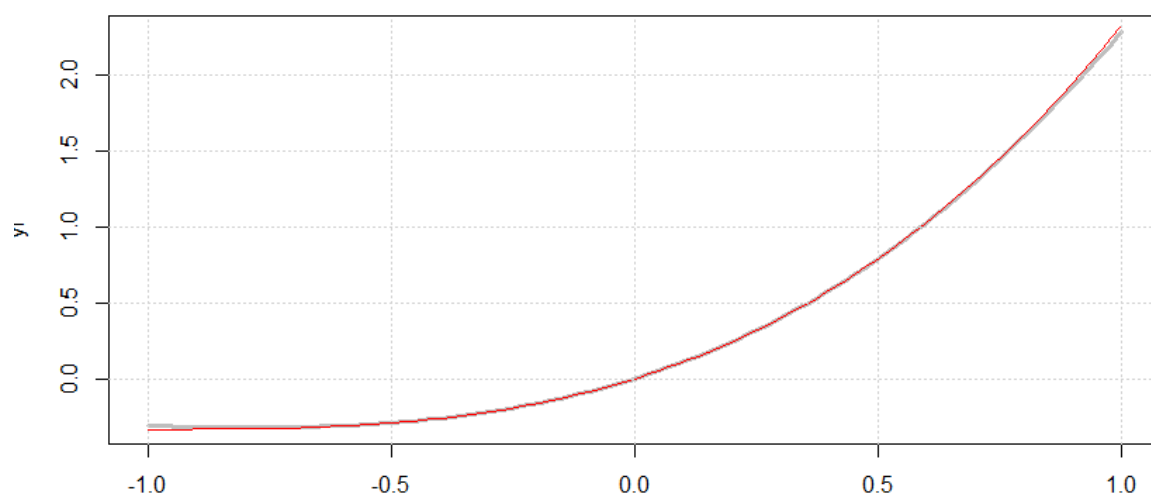
```

> p
[1] 3.333249e-01 1.000000e+00 1.000000e+00 3.701209e-13
> |

```



0.0001



```
> p
[1] 3.333332e-01 1.000000e+00 1.000000e+00 -1.222133e-15
>
```

0.0000099

```
> p
[1] -2.728873e-01 2.287356e+00 -4.201140e-07 2.728872e-01
>
```

