

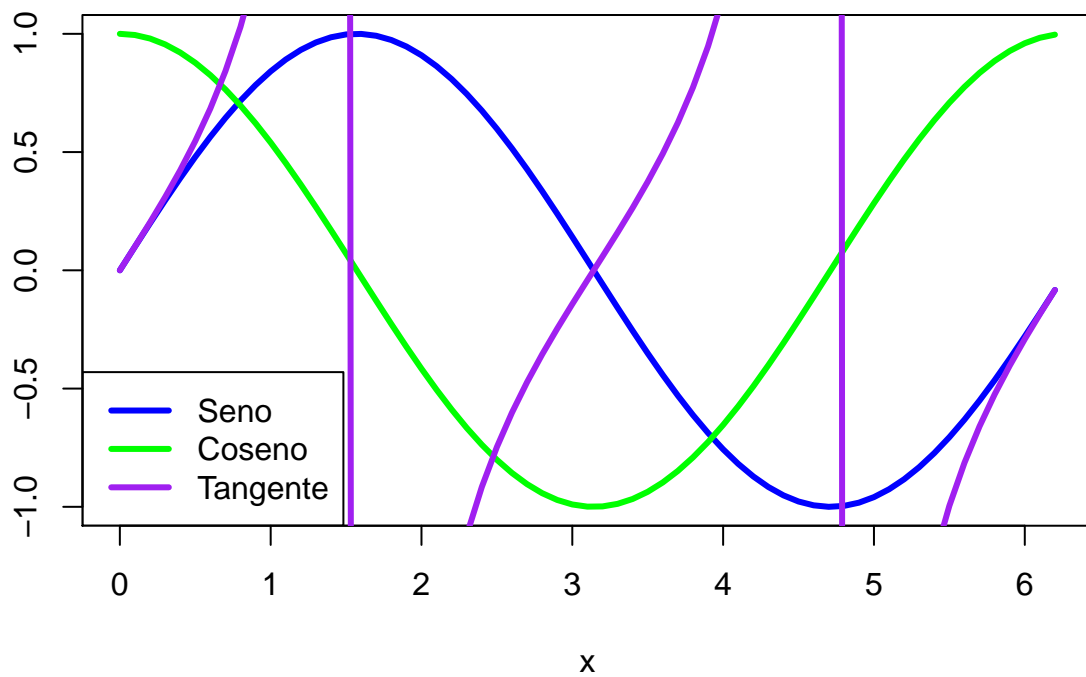
Clase 2

Pau Peón

21/2/2020

$$\int_{-\infty}^{\infty} \frac{x^2}{2x}$$

[1] 253



```
## Vectores
```

```
c(1,2,3)
```

```
## [1] 1 2 3
```

```
rep("Pau", 5)
```

```
## [1] "Pau" "Pau" "Pau" "Pau" "Pau"
```

```
bolas = c(rep("Roja", 6), rep("Azul", 2))
```

```

año = rep(2001, 10)

vec = c(16, 0, 1, 20, 1, 7, 88, 5, 1, 9)

0:20

## [1] 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
seq(0, 20, by=2)

## [1] 0 2 4 6 8 10 12 14 16 18 20
round(seq(17, 98, length.out = 30), 4)

## [1] 17.0000 19.7931 22.5862 25.3793 28.1724 30.9655 33.7586 36.5517 39.3448
## [10] 42.1379 44.9310 47.7241 50.5172 53.3103 56.1034 58.8966 61.6897 64.4828
## [19] 67.2759 70.0690 72.8621 75.6552 78.4483 81.2414 84.0345 86.8276 89.6207
## [28] 92.4138 95.2069 98.0000

x = 1:10
sapply(x, FUN = cos)

## [1] 0.5403023 -0.4161468 -0.9899925 -0.6536436 0.2836622 0.9601703
## [7] 0.7539023 -0.1455000 -0.9111303 -0.8390715

mean(x)

## [1] 5.5

diff(x)

## [1] 1 1 1 1 1 1 1 1 1

cumsum(x)

## [1] 1 3 6 10 15 21 28 36 45 55

y = seq(1, 20, length.out = 15)
mi_function <- function(y) {
  2^y
}
mi_function

## function(y) {
## 2^y
## }

round(sapply(y, mi_function), 2)

## [1] 2.00 5.12 13.13 33.62 86.14 220.67
## [7] 565.29 1448.15 3709.84 9503.78 24346.53 62370.29
## [13] 159778.56 409316.46 1048576.00

x = c(2, 34, 1, 5, 65, 23, 1)
x

## [1] 2 34 1 5 65 23 1

x[x<10]

## [1] 2 1 5 1

```

```
which.min(x)
```

```
## [1] 3
```

```
which(x == min(x))
```

```
## [1] 3 7
```

```
fac = factor(c(1,1,1,2,3,2,2,2,3,3,4,3,2,1,1,2,3,4), levels= c(1,2,3,4), labels=c("Sus","Apr","Not","Exc"))  
fac
```

```
## [1] Sus Sus Sus Apr Not Apr Apr Apr Not Not Exc Not Apr Sus Sus Apr Not Exc  
## Levels: Sus Apr Not Exc
```