

# TIP1 FUNZIONALI

```
func pippo (x float64) float64 {  
    y := x * x  
    return math.Sin(y) + x - 2  
}
```

$\sin(x^2) + x - 2$

```
func main() {  
    var f func(float64) float64
```

```
f = math.Sin
```

```
fmt.Println(f(math.Pi/2.0))
```

```
f = pippo
```

```
fmt.Println(f(5))
```

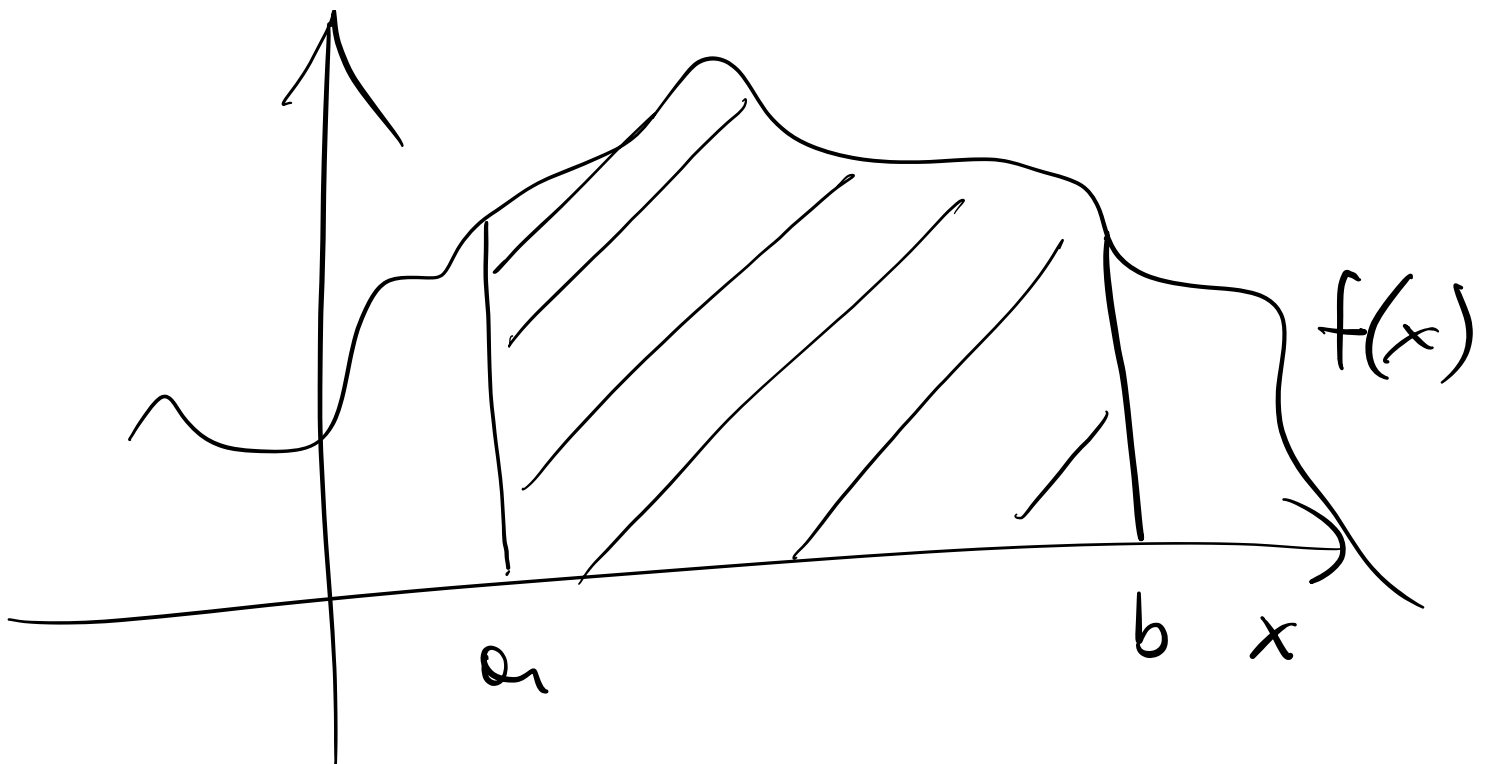
```
func (x float64) float64 {
```

$f = \text{func}(x)$   
return  $x*x$

}  
fut, Println(f(3))

}

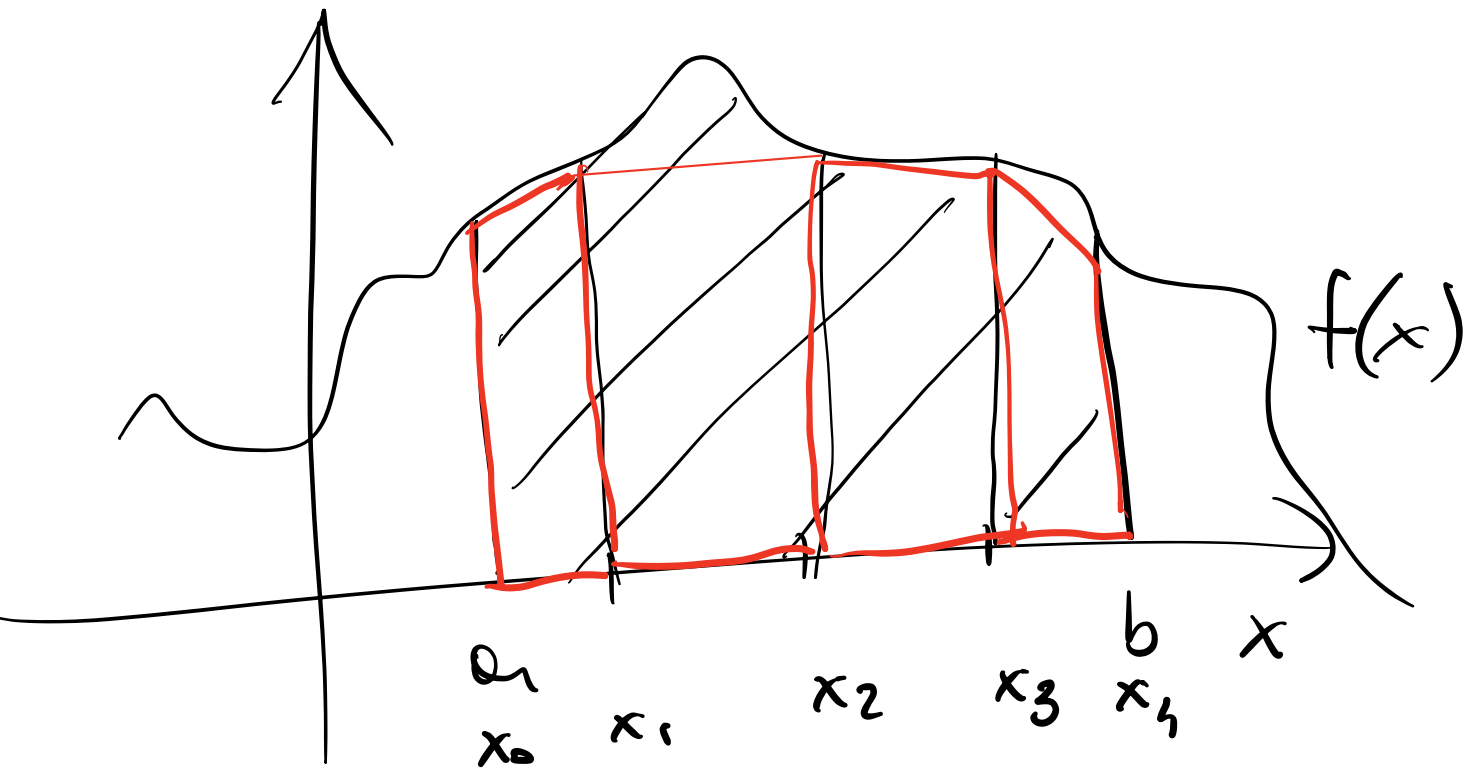
## INTEGRAZIONE NUMERICA



$$\int_a^b f(x) dx = F(b) - F(a)$$

$$F \quad t.c. \quad f'(x) = f(x)$$

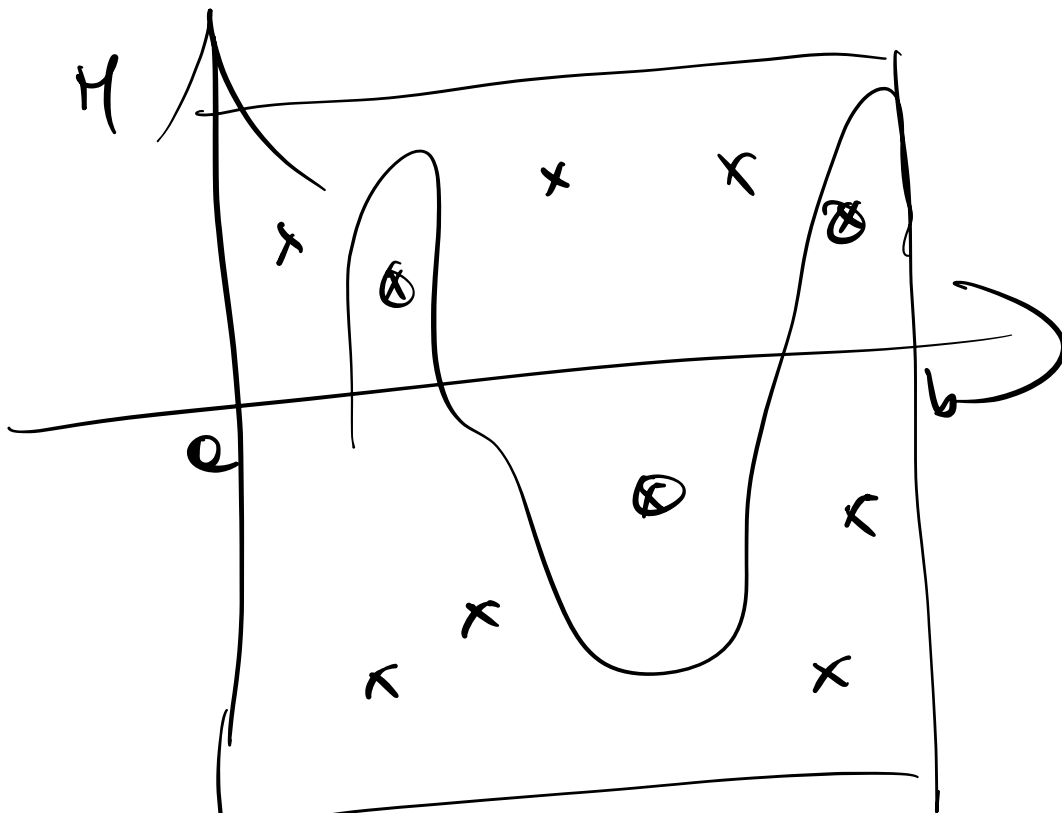
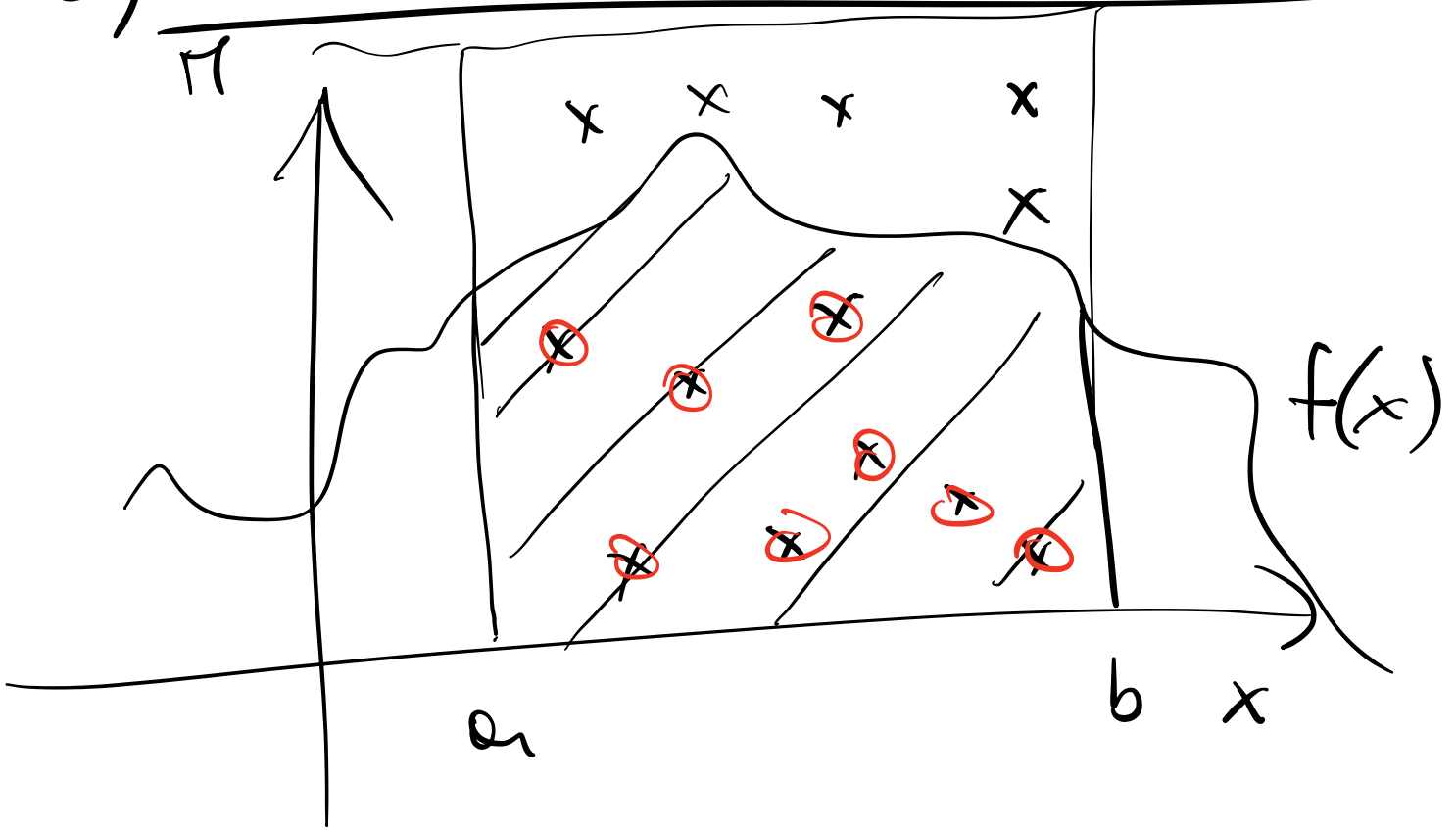
# 1) METODO DEI TRAPEZIODI



$$n = 4$$

# 2) METODO

# MONTE-CARLO



1-2