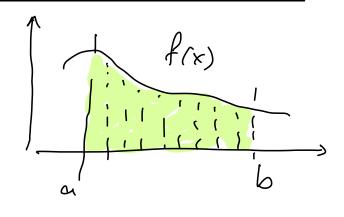
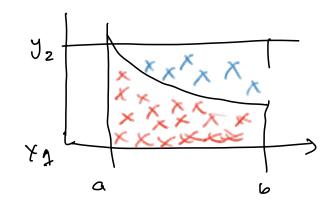
$$I = \int_{0}^{\infty} f(x) dx$$

$$f(x) = \frac{d}{dx} F(x)$$



Metodo hit 2 miss:

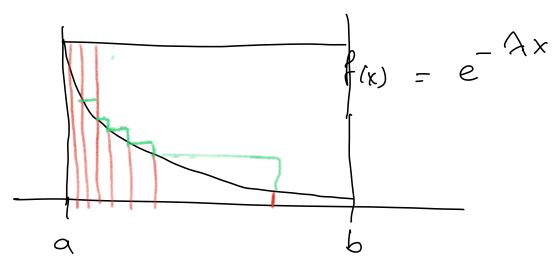


Ndeutro: pourti- 1055: 5040 le aure.

Ntotele: purt, generati nel retlamon.

genero (xi, yi) 2 nous. Cesucl.

y: < f(x;) punto dentro



```
X = (9,5) X = Q + (6-9) * lrond(481)/ RAND-MAX
                                                             S: S(xi)
   Sum = 0;
    Por(i=0, i < Nputi, i++) }
           X = 9+66~) --
          Sum += f(x) * (b-a)
                              Som / nputi;
  Sum =
                                        f(x)
                                                            (b-9) f(x)
                                                         \mathcal{E}_{\alpha}(x) = \alpha \mathcal{E}_{x}(x)
#include <stdlib.h>
#include <stdio.h>
#include <math.h>
double myf(double);
int main() {
                                                              f(x) = x^2
 double sum = 0;
 double a=0., b=3;
 int npt;
 for(npt=10; npt<=1e6; npt*=10) {
   for(int i=0; i<npt; i++) {</pre>
                                                        F(x) = = = x3
    double x = a + (b-a)*lrand48()/RAND_MAX;
    sum += myf(x);
   sum = (b-a)*sum/npt;
                                                     3
                                                      \int_{0}^{\infty} x^{2} dx = \frac{1}{3} x^{3} \Big|_{3}^{3}
   printf("#punti: %8d \t Integral: %.5f\n", npt, sum);
 }
 return 0;
double myf(double x) {
 return x*x;
   #punti:
                       10
                                       Integral: 6.99096
   #punti:
                                       Integral: 9.49756
                      100
   #punti:
                                       Integral: 8.83431
                    1000
```

Integral: 9.00245 Integral: 8.98946

Integral: 9.01072

#punti:

#punti:

#punti:

10000

100000

1000000