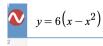
1.

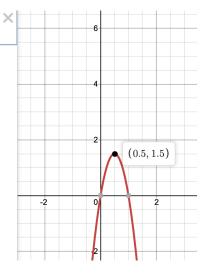
$$\int f_x(x)dx = \int_{-inf}^0 0dx + \int_1^{+inf} 0dx + \int_0^1 C(x-x^2) = C \int_0^1 (x-x^2)dx \to \frac{1}{C} = \int_0^1 (x-x^2)dx = \frac{1}{6} \to C = 6$$

2.

Max
$$f(x) = 1.5$$

Max g(x) = 1 (poichè distribuzione uniforme[0,1])





$$M > = \frac{1,5}{1}$$

M = 1,5

3-4.

Total: 10000 Accepted: 6578 Ratio (A/T): 0.6578

