

Lista 03 - Integral

1. Calcule as integrais indefinidas abaixo,

a. $\int x^2 dx$

b. $\int (x^2 + 10000) dx$

c. $\int e^x dx$

d. $\int \sin(x) dx$

e. $\int (\cos(x) + 10000) dx$

f. $\int (x^{100} + x^2 - 4x + 100) dx$

g. $\int (x^{-2} - 10x) dx$

2. Calcule as integrais definidas,

a. $\int_0^3 x dx$

b. $\int_0^1 x^2 dx$

c. $\int_{\pi}^{2\pi} \sin(x) dx$