

## Lista 1 - Cálculo de primitivas

Calcule:

1.  $\int x^5 dx$

4.  $\int \sqrt{x^3 + 2} x^2 dx$

7.  $\int \cos 7x dx$

10.  $\int e^{6x} dx$

13.  $\int x\sqrt{3 + 4x^2} dx$

16.  $\int \cos^3 x dx$

19.  $\int \operatorname{sen}^2 x dx$

22.  $\int \frac{1}{3x + 4} dx$

25.  $\int \operatorname{tg} x dx$

28.  $\int \frac{\sec^2 x}{5 + 3\operatorname{tg} x} dx$

31.  $\int \frac{2}{4 + 5x^2} dx$

34.  $\int xe^x dx$

37.  $\int \ln x dx$

2.  $\int (x^3 + 2)^5 3x^2 dx$

5.  $\int \frac{x^2}{x^3 + 2} dx$

8.  $\int x \cos x^2 dx$

11.  $\int x^3 e^{x^4} dx$

14.  $\int e^x \sqrt{32 + e^x} dx$

17.  $\int \cos 2x dx$

20.  $\int \operatorname{sen}^3 x dx$

23.  $\int \frac{\cos x}{\operatorname{sen} x} dx$

26.  $\int \sec^2 x dx$

29.  $\int \frac{1}{1 + x^2} dx$

32.  $\int \frac{x}{4 + 5x^2} dx$

35.  $\int x \operatorname{sen} x dx$

38.  $\int \frac{2x - 3}{(x - 1)^2} dx$

3.  $\int (x^3 + 2)^5 x^2 dx$

6.  $\int \cos x dx$

9.  $\int \frac{x^2}{(x^3 + 2)^4} dx$

12.  $\int \cos^5 x \operatorname{sen} x dx$

15.  $\int xe^{-x^2} dx$

18.  $\int \cos^2 x dx$

21.  $\int \frac{1}{x} dx$

24.  $\int \operatorname{cot} g x dx$

27.  $\int \operatorname{tg}^2 x dx$

30.  $\int \frac{1}{1 + 4x^2} dx$

33.  $\int \frac{x}{1 + x^4} dx$

36.  $\int x \ln x dx$

39.  $\int \frac{x}{x^2 - 4} dx$