

EXERCICES – LOGARITHME : CALCUL D'INTÉGRALES

Exercice 1

Calculer l'intégrale I :

$$1) I = \int_{-1}^1 (x^2 + 3x + 1) dx$$

$$2) I = \int_{-5}^{-1} x e^{x^2} dx$$

$$3) I = \int_{-4}^1 \frac{1}{(2x-4)^2} dx$$

$$4) I = \int_0^{\pi} \cos(3x) dx$$

$$5) I = \int_1^2 \frac{\ln(x)}{x} dx$$

$$6) I = \int_2^0 \frac{1}{2x+1} dx$$

$$7) I = \int_{-1}^2 \frac{x}{\sqrt{x^2+1}} dx$$

$$8) I = \int_{-1}^3 e^{3x+3} dx$$

$$9) I = \int_{-1}^5 (2x+1)^3 dx$$

$$10) I = \int_0^3 \frac{e^x}{e^x+1} dx$$

$$11) I = \int_1^3 \frac{2x^2+1}{x} dx$$

$$12) I = \int_{-0,5}^0 \frac{x}{x^2-1} dx$$