

**Exercices de calcul d'intégrales :**

1.  $I = \int_0^1 3x^2 - 2x + 1 dx$

2.  $I = \int_{0.5}^1 4x^4 + 2x - 5 + \frac{1}{x^2} dx$

3.  $I = \int_{0.1}^1 e^x + e^{3x} - \frac{2}{x} dx$

4.  $I = \int_0^1 \cos(x) - \sin(x) dx$

5.  $I = \int_0^1 xe^{x+3} dx$

6.  $I = \int_1^e \ln(x) dx$

7.  $I = \int_0^1 \frac{4x-5}{2x^2-5x+10} dx$

8.  $I = \int_0^1 \frac{x^2-1}{x^2+1} dx$

9.  $I = \int_0^1 \cos(x)e^{\sin(x)} dx$

10.  $I = \int_1^2 \frac{3e^{3x} + \frac{1}{x}}{2\sqrt{e^{3x} + \ln(x)}} dx$

11.  $I = \int_0^1 \frac{1}{(x^2+1)^2} dx$