

Tutorial 1

Integral Exercises

a). Substitution: $\int x \cos(x^2 + 1) dx$

b). Integration by parts: $\int e^x \sin x dx$

c). Partial fractions: $\int \frac{1}{(x-1)(x+2)} dx$

d). Partial fractions: $\int \frac{1}{x^4 - x^3} dx$