Integration by Substitution

Substitution is used to integrate composite functions as well as some complex functions. It involves rewriting the integrand in terms of a different variable defined in terms of the one originally used.





















C

Integration by Substitution

Solve the differential $\int (4x^3 + 2x)^5 (12x^2 + 2) dx$









C

Integration by Substitution

Find the definite integral $\int_{4}^{7} \frac{2t}{(t^2-3)^3} dt$









C

Integration by Substitution

Find the indefinite integral $\int x \sqrt{3x^2 - 2} \, dx$







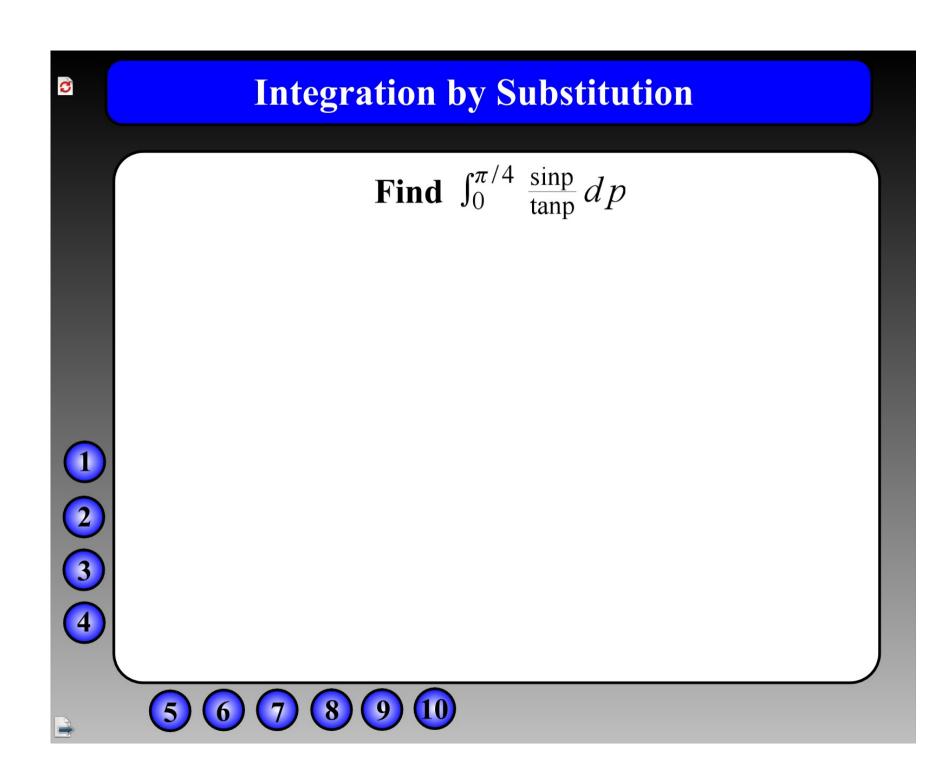




Integration by Substitution

Find
$$\int_{2}^{4} \frac{x^2}{\sqrt{2x^3-5}} dx$$

C **Integration by Substitution** Solve the differential $\int \cos x \sin x \, dx$ **Integration by Substitution** Find the integral $\int \sec^2 x \tan x \, dx$



Find $\int \frac{x}{(3x-1)^3} dx$

- 1
- 2
- 3
- 4

C **Integration by Substitution** Find $\int 3x(x+4)^7 dx$