
Déterminer les intégrales indéfinies suivantes

$$\int 5 dx$$

$$\int x dx$$

$$\int 3x dx$$

$$\int -2x^2 dx$$

$$\int (x^2 - 4x + 3) dx$$

$$\int -5x^2 dx$$

$$\int (7x - 1) dx$$

$$\int \frac{x^2}{3} dx$$

$$\int 3x^4 dx$$

$$\int \frac{x-5}{3} dx$$

$$\int -2x dx$$

$$\int (4 - 3x) dx$$

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

$$\int (x^3 - x^2 + x - 1) dx$$

$$\int \left(x + 1 - \frac{3}{x^2} \right) dx$$

$$\int \frac{1}{4} (3 - 5x) dx$$

$$\int \left(5x + 3 + \frac{5}{x^2} \right) dx$$

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

$$\int \left(x + \frac{2}{\sqrt{x}} \right) dx$$

$$\int (x-1)(x+1) dx$$

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

$$\int x^9 dx$$

$$\int \frac{1}{x^4} dx$$

$$\int \frac{5}{x^7} dx$$

$$\int \left(5x + \frac{2}{x^2}\right) dx$$

$$\int (2x - 5)^2 dx$$

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

■ Solutions

$$\int 5 dx = 5x + k$$

$$\int x dx = \frac{x^2}{2} + k$$

$$\int 3x dx = \frac{3x^2}{2} + k$$

$$\int -2x^2 dx = -\frac{2x^3}{3} + k$$

$$\int (x^2 - 4x + 3) dx = \frac{x^3}{3} - 2x^2 + 3x + k$$

$$\int -5x^2 dx = -\frac{5x^3}{3} + k$$

$$\int (7x - 1) dx = \frac{7x^2}{2} - x + k$$

$$\int \frac{x^2}{3} dx = \frac{x^3}{9} + k$$

$$\int 3x^4 dx = \frac{3x^5}{5} + k$$

$$\int \frac{x-5}{3} dx = \frac{x^2}{6} - \frac{5x}{3} + k$$

$$\int -2x dx = -x^2 + k$$

$$\int (4 - 3x) dx = 4x - \frac{3x^2}{2} + k$$

$$\int (x^3 + 2x^2) dx = \frac{x^4}{4} + \frac{2x^3}{3} + k$$

$$\int (x^3 - x^2 + x - 1) dx = \frac{x^4}{4} - \frac{x^3}{3} + \frac{x^2}{2} - x + k$$

$$\int \left(x + 1 - \frac{3}{x^2} \right) dx = \frac{x^2}{2} + x + \frac{3}{x} + k$$

$$\int \frac{1}{4} (3 - 5x) dx = \frac{3x}{4} - \frac{5x^2}{8} + k$$

$$\int \left(5x + 3 + \frac{5}{x^2} \right) dx = \frac{5x^2}{2} + 3x - \frac{5}{x} + k$$

$$\int 3(x^2 + x) dx = x^3 + \frac{3x^2}{2} + k$$

$$\int \left(x + \frac{2}{\sqrt{x}} \right) dx = \frac{x^2}{2} + 4\sqrt{x} + k$$

$$\int (x-1)(x+1) dx = \frac{x^3}{3} - x + k$$

$$\int (3x^2 + 2x + 2) dx = x^3 + x^2 + 2x + k$$

$$\int x^9 dx = \frac{x^{10}}{10} + k$$

$$\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + k$$

$$\int \frac{5}{x^7} dx = -\frac{5}{6x^6} + k$$

$$\int \left(5x + \frac{2}{x^2} \right) dx = \frac{5x^2}{2} - \frac{2}{x} + k$$

$$\int (2x-5)^2 dx = \frac{4x^3}{3} - 10x^2 + 25x + k$$

$$\int \frac{(3x-2)^2}{x} dx = \frac{9x^2}{2} - 12x + 4 \ln(|x|) + k$$