

# Integration Practice

October 23, 2024

Evaluate the following indefinite integrals:

1.  $\int (3x^2 - 8x + 5) dx$
2.  $\int (x^4 - 2x^3 + 7) dx$
3.  $\int (\frac{1}{2}x^3 - \frac{3}{4}x^2 + x - 2) dx$
4.  $\int (12x^5 - 5x^4 + 8x^3 - 2) dx$
5.  $\int (9x^2 + 4x - 11) dx$
6.  $\int (x^6 - 3x^4 + x^2 - 5) dx$
7.  $\int (5x^4 + 2x^2 - 9) dx$
8.  $\int (x^3 - 7x + 4) dx$
9.  $\int (10x^5 - 3x^2 + 1) dx$
10.  $\int 3x^2(x^3 + 2)^4 dx$
11.  $\int 2x\sqrt{x^2 - 5} dx$
12.  $\int \cos(x) \sin^2(x) dx$
13.  $\int (2x + 1)(x^2 + x)^3 dx$
14.  $\int 4x^3 \sqrt[3]{x^4 + 1} dx$