

Indefinite Integrals I - Worksheet

Compute the following indefinite integrals.

1. $\int (5x + 3)^7 \ln(2) dx$

6. $\int \left(5x^3 + \frac{\sqrt{\pi}}{2\sqrt{x}} + 2^x - e^{-(\ln 2)^2/2} \right) dx$

2. $\int \frac{9x^2 + 7x + 1}{4x} dx$

7. $\int \frac{dx}{3x + 5}$

3. $\int e^{5x+7} dx$

8. $\int \frac{x \sec^2 x + x^3}{x} dx$

4. $\int \cos^2(4x) dx$

9. $\int 5xe^{x^2+7} dx$

5. $\int \frac{x + \sqrt{x}}{x^2} dx$

10. $\int \sin(x) \cos(x) dx$