

Practice Examples

1. $\int x^3 dx$

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

3. $\int 6\sqrt{x} dx$

4. $\int \frac{1}{3x^2} dx$

5. $\int \frac{x^4 + 3x^2 + 1}{x} dx$

6. $\int (\sin x - \csc x \cot x + x^2) dx$

7. $\int \left(4\sqrt[3]{x} - 5\sqrt{x^3} - \frac{1}{\sqrt{x}} \right) dx$

8. $\int 8e^x + 2x^3 dx$

9. $\int \left(\frac{4}{x} + \frac{3}{x^2} - \frac{1}{x^3} \right) dx$

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