

e.g.

$$\int x^5 dx = \frac{x^6}{6} + c$$

$$\int 2x^7 dx = \frac{2x^8}{8} + c$$

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

$$\int (x^4 - 4x^3) dx = \frac{x^5}{5} - \frac{4x^4}{4} + c = \frac{x^5}{5} - x^4 + c$$

$$\int \sqrt{x} dx = \int x^{\frac{1}{2}} dx = 2x^{\frac{3}{2}} + c$$