

9.1 Integration As The Reverse Process Of Differentiation

$$1. \int x^n dx = \frac{x^{n+1}}{n+1} + c, \quad n \neq -1$$

$$2. \int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c, \quad n \neq -1$$

$$\int x^n dx = \frac{x^{n+1}}{n+1} + c$$

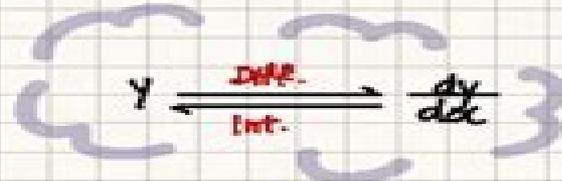
$$\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c$$

$$1. \frac{dy}{dx} = 15x^2$$

$$y = \int 15x^2 dx = 15 \int x^2 dx$$

$$y = \int 15x^2 dx = 15 \int x^2 dx = 15 \left(\frac{x^3}{3} \right) + c = 5x^3 + c$$

$$= 15 \left(\frac{x^3}{3} \right) + c = 5x^3 + c$$



$$2. \frac{dy}{dx} = \frac{1}{2x^3}$$

$$y = \int \frac{1}{2x^3} dx$$

$$y = \int \frac{1}{2x^3} dx = \int \frac{1}{2} \cdot \frac{1}{x^3} dx$$

$$= \int \frac{1}{2} x^{-3} dx = \frac{1}{2} \int x^{-3} dx$$

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

$$= -\frac{1}{4x^2} + c$$

$$= -\frac{1}{4x^2} + c$$

$$= -\frac{1}{4x^2} + c$$

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

$$= \frac{-1}{4x^2} + c$$

$$(2x+1)^3 \begin{matrix} \xrightarrow{0} 3(2x+1)^2 \cdot (2) \checkmark \\ \xrightarrow{x} \frac{(2x+1)^4}{(4)(2)} \checkmark \end{matrix}$$

$$(2x^3+1)^3 \begin{matrix} \xrightarrow{0} 3(2x^3+1)^2 \cdot (6x^2) \checkmark \\ \xrightarrow{x} \frac{(2x^3+1)^4}{4(6x^2)} \times \end{matrix}$$

not linear

How to integrate?

⇒ Use binomial expansion to expand $(2x^3+1)^3$.

$$(2x+1)^3 \begin{matrix} \xrightarrow{0} 3(2x+1)^2 \cdot (2) \\ \xrightarrow{x} \frac{(2x+1)^4}{(4)(2)} \end{matrix}$$

$$(2x^3+1)^3 \xrightarrow{0} 3(2x^3+1)^2 \cdot (6x^2)$$

$$\xrightarrow{x} \frac{(2x^3+1)^4}{4(6x^2)} \checkmark$$

⇒ Use binomial expansion

$$\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{(n+1)(a)} + c$$

must be linear

$$3. \int (2x-7)^8 dx = \frac{(2x-7)^9}{(9)(2)} + c = \frac{1}{18} (2x-7)^9 + c$$

$$\int (2x-7)^8 dx = \frac{(2x-7)^9}{(9)(2)} + c = \frac{1}{18} (2x-7)^9 + c$$

Understanding Differentiation

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