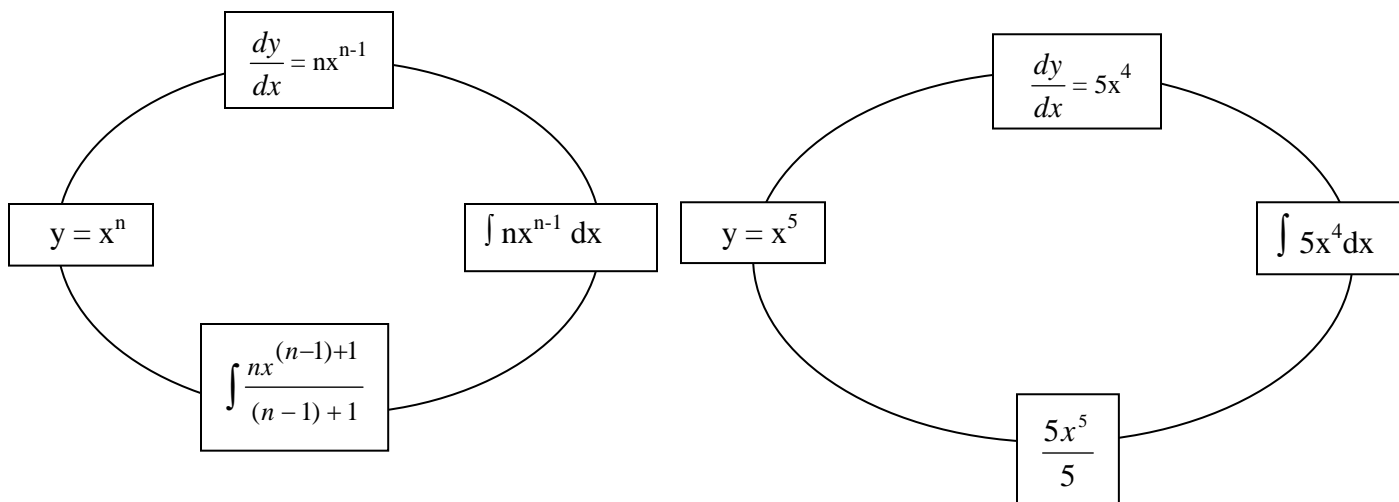


Integration is a reverse process of Differentiation



Multiply by the power and reduce the power by one

FORMULA WHICH IS NOT GIVEN

FORMULA GIVEN

$$\int a dx = ax + c$$

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

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

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

$$\int_a^b f(x) dx = -\int_b^a f(x) dx$$

$$\int_a^c f(x) dx = \int_a^b f(x) dx + \int_b^c f(x) dx$$

$$A = \int_a^b f(x) dx = \int_a^b f(y) dy$$

$$V = \pi \int_a^b x^2 dx = \pi \int_a^b y^2 dy$$