

13.1. $\int_0^1 x^2 dx = \frac{1}{3}$ $\int_0^1 x^3 dx = \frac{1}{4}$ $\int_0^1 x^4 dx = \frac{1}{5}$ $\int_0^1 x^5 dx = \frac{1}{6}$ $\int_0^1 x^6 dx = \frac{1}{7}$ $\int_0^1 x^7 dx = \frac{1}{8}$ $\int_0^1 x^8 dx = \frac{1}{9}$ $\int_0^1 x^9 dx = \frac{1}{10}$

$\int_0^1 x^n dx = \frac{1}{n+1}$

13.2. $\int_0^1 x^2 dx = \frac{1}{3}$ $\int_0^1 x^3 dx = \frac{1}{4}$ $\int_0^1 x^4 dx = \frac{1}{5}$ $\int_0^1 x^5 dx = \frac{1}{6}$ $\int_0^1 x^6 dx = \frac{1}{7}$ $\int_0^1 x^7 dx = \frac{1}{8}$ $\int_0^1 x^8 dx = \frac{1}{9}$ $\int_0^1 x^9 dx = \frac{1}{10}$

$\int_0^1 x^n dx = \frac{1}{n+1}$

14. Integration by parts

$\int x^2 dx = \frac{1}{3}x^3$ $\int x^3 dx = \frac{1}{4}x^4$ $\int x^4 dx = \frac{1}{5}x^5$ $\int x^5 dx = \frac{1}{6}x^6$ $\int x^6 dx = \frac{1}{7}x^7$ $\int x^7 dx = \frac{1}{8}x^8$ $\int x^8 dx = \frac{1}{9}x^9$ $\int x^9 dx = \frac{1}{10}x^{10}$

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

15. Integration by substitution

■ $\int x^2 dx = \frac{1}{3}x^3$

■ $\int x^3 dx = \frac{1}{4}x^4$

■ $\int x^4 dx = \frac{1}{5}x^5$ (21) $\int x^5 dx = \frac{1}{6}x^6$

■ $\int x^6 dx = \frac{1}{7}x^7$ $\int x^7 dx = \frac{1}{8}x^8$

■ $\int x^8 dx = \frac{1}{9}x^9$ $\int x^9 dx = \frac{1}{10}x^{10}$

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

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