INTEGRALI

_ 5 SPONGNZIAUG

$$\int e^{x} dx = e^{x} + c$$

$$\Rightarrow \int e^{x^{2}} dx = e^{x^{2}} + c$$

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- LOGAR WTO

- SONO

- COSONO

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

$$= -\frac{1}{X} + C$$

$$\frac{13}{\sqrt{x}} \int \sqrt{x} \, dx = \int x^{1/2} = \frac{x^{1/2} + 1}{1/2 + 1} = \frac{2}{3} \times \sqrt{x} + c$$

$$\frac{14}{\sqrt{x}} \int \sqrt{x} \, dx = \int x^{1/3} dx = \frac{x^{1/3} + 1}{1/3 + 1} = \frac{3}{4} \times \sqrt{x} + c$$

$$\int e^{5-3} e^{3x} dx = e^{5-3} \cdot (5-3) + c \cdot e^{3} \cdot (3) \times e^{3} \cdot (3) \times e^{5-3} \cdot (5-3) + c \cdot e^{3} \cdot (5-3) \times e^{3} \cdot (5-3) \times e^{5-3} \cdot$$

$$\int 5 \times 4 = 5 \times 4 = 5 \times 5 = 5$$

$$\int x e^{x^2} dx = \int x^4 \cdot \int e^{x^2} dx$$

$$= \frac{x^2}{2} \cdot e^{x^2} \int x^2$$

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

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

$$= \ln(x) + 2 \int \frac{1}{x^2}$$

$$= \ln(x) + 2 \int x^{-3}$$

$$= \ln(x) + 2 \int x^{-2}$$

$$= \ln(x) + 2 \int x^{-2}$$

$$\int (x^{2}+1)(x+1) dx = \int x^{3} + x^{2} + x + 1 dx$$

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

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

$$(a-b)^{2} = a^{2} + b^{2} - 2ab$$

$$\int \frac{(x^{2}-1)^{2}}{x^{2}} dx = \int \frac{x^{4} + 1 - 2x^{2}}{x^{2}}$$

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

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

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