1) Propriedade 1: Soma das negrais
Loft integral de uma soma é igual à soma das
integrais

Ex. 
$$(3x + 5x)dx = 3xdx + 5xdx$$

$$\frac{2}{2} \int_{-1}^{1} (x) = 3x^{2} - (\sqrt{\cos(x^{3})} + \frac{3}{4}(-\sin(x^{3}) - 3x^{3})) + \frac{3x^{2}}{x^{3}} + e^{-4x} - -4x$$

$$= \int_{-1}^{1} (x) = 3x^{2} - (\sqrt{\cos(x^{3})} + \frac{3x^{2}}{x^{3}} - e^{-4x} - 4x)$$

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$$= \int_{-1}^{1} (x) = 3x^{2} - (x) = 3x^{2} -$$

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

$$2\sqrt{x^{\frac{3}{2}}} + 2\sqrt{x} + C$$

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

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

$$\frac{u^{-2}}{2} + C \qquad -du = \frac{1}{x^{\frac{3}{2}}} dx$$

$$\int (cosx - senx) \left(cosx - senx\right) dx$$

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$$\int (cosx - senx) dx \qquad M = 2x$$

$$\int 1 dx - \int sen(u) du \qquad \frac{du}{dx} = 2$$

$$x + cos(2x) + C \qquad \frac{du}{2} = dx$$

 $x + \cos(2x) + C$ 

$$3-e) \int \left(\frac{\ln(x)}{x} - \frac{e^{\sqrt{x}}}{\sqrt{x}}\right) dx$$

$$\int \frac{\ln x}{x} dx - \frac{e^{\sqrt{x}}}{\sqrt{x}} dx \quad du = \frac{1}{x} dx \quad dv = \frac{1}{\sqrt{x}} dx$$

$$\int \frac{\ln(x)^{2}}{x^{2}} - 8e^{\sqrt{x}} + C$$

$$\frac{\ln(x)^{2}}{x^{2}} - 8e^{\sqrt{x}} + C$$

$$\int \sec(4x) dx - \frac{e^{\frac{1}{x}} + 8}{x^{2}} dx + \frac{8}{x^{2}} dx$$

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$$\int_{x^2}^{x^2} \int_{y^2}^{y^2} dx = \int_{x^2}^{y^2} dx$$

$$\int_{x^2}^{y^2} \int_{x^2}^{y^2} dx + \int_{x^2}^{y^2} dx + \int_{x^2}^{y^2} dx$$

$$\int_{x^2}^{y^2} \int_{x^2}^{y^2} dx + \int_{x^2}^{y^2}$$

$$\frac{3-9}{\sqrt{\frac{sen(\ln(x))}{x}-4(cos(2x))dx}} = \frac{1}{2}x \quad \sqrt{\frac{-\ln(x)}{x}} = \frac{1}{2}x \quad \sqrt{\frac$$

$$\frac{3}{2} - \frac{1}{2} \int e^{3x} \operatorname{Sen}(2x) dx \qquad \qquad \int e^{3x} \operatorname{Sen}(2x) dx \qquad \int e^{3x} \operatorname{Sen}(2x) dx = e^{3x} \left( \frac{1}{2} \operatorname{Sen}(2x) \right) dx = e^{3x} \int e^{3x} \operatorname{Sen}(2x) dx = e^{3x} \left( \frac{1}{2} \operatorname{Sen}(2x) \right) dx = e^{3x} \int e^{3x} \operatorname{Sen}(2x) dx = e^{3x} \left( \frac{1}{2} \operatorname{Sen}(2x) \right) dx = e^{3x} \int e^{3x} \operatorname{Sen}(2x) dx = e^{3x} \int e^$$

$$\frac{3-J}{2} \frac{\cos(\ln(x^2))}{\cos(\ln(x^2))} - 4\cos(6x) dx \frac{dv}{b} = dx$$

$$\frac{\cos(\ln(x^2))}{x} dx - 4\cos(6x) dx \frac{dv}{b} = dx$$

$$\frac{dv}{2} \frac{dv}{dx} = 2$$

$$\frac{1}{2} \cos(v) dv - \frac{1}{6} \ln|\sec(6x)| + C \frac{dv}{2} = \frac{1}{x} dx$$

$$\frac{1}{3} \cdot \sec(\ln(x^2)) - \frac{4}{6} \ln|\sec(6x)| + C$$