$$\int xy \, db = 7xy \, dx + C$$

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$$\int x^{3} + 2 \, dx = \int (x^{2} - 2x^{3/2} + \frac{2}{x^{2}}) \, dx$$

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

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

$$\int x \cos x \, dx = \int x \cos x \, dx - \frac{2}{x} \, dx - \frac{2}{x} \, dx$$

$$= \int x \cos x \, dx - \frac{2}{x} \, dx - \frac{2}{x} \, dx$$

$$= \int x \cos x \, dx - \frac{2}{x} \, dx - \frac{2}{x} \, dx$$

$$\int (2x \sin x - 5c^{0}) \, dx - \frac{2}{x} \cos x - 5c^{0} + C$$

$$\int (2x \sin x - 5c^{0}) \, dx - \frac{2}{x} \cos x - 5c^{0} + C$$

$$\int (2x \cos x - 5c^{0}) \, dx - \frac{2}{x} \cos x - 5c^{0} + C$$

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$$\int (2x \cos x - 5c^{0})$$

$$\int_{0}^{2} x(x-2) dx = \int_{0}^{2} (x^{2}-2x) dx$$

$$= \int_{0}^{2} x^{2} - x^{2} \int_{0}^{2} x^{2} + x^{2} \int_$$

$$\begin{cases} f(x) = x^{2} + dx + 3 = 0 \\ x = -1, -3 \end{cases}$$

$$A = -\int_{-3}^{1} (x^{2} + dx + 2) dx + \int_{-3}^{0} (x^{2} + dx + 2) dx$$

$$= -\left(\frac{1}{3}x^{3} + 2x^{2} + 3x\right)^{-1} + \left(\frac{1}{3}x^{2} + 2x^{2} + 2x\right)^{0}$$

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

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

$$=$$

$$\int_{0}^{1} (2t+3)^{3} dt = \frac{1}{2} \int_{0}^{1} (2t+3)^{2} dt = \frac{1}{2} \int_{0}^{1} (2t+3)^{3} dt$$

$$= \frac{1}{6} (2t+3)^{3} \int_{0}^{1} dt$$

11 Cos 2 de

d (4+3 sing) = 3 cosed &

$$=\frac{1}{3}\int_{-\pi}^{\pi} (4 + 3 \sin 2)^{2} d8$$

$$=\frac{2}{3}(4 + 3 \sin 2)^{2} \int_{-\pi}^{\pi}$$

$$=\frac{2}{3}(2 - 2)$$

$$=0$$

 $\int_{0}^{1} t^{5} + 2t^{2} \left(5t^{4} + 2t\right) dt \qquad \mathcal{L}(t^{5} + 2t) = (5t^{4} + 2)dt$   $= \int_{0}^{1} \left(t^{5} + 2t\right)^{2} dt \left(t^{5} + 2t\right)$   $= \frac{2}{3} \left(t^{5} + 2t\right)^{3} \int_{0}^{1} dt$   $= \frac{2}{3} \left(3^{3} - 0\right)$   $= 2 \sqrt{3}$ 

Joseph Conix desinx)

= \int \text{op} \text{conix} \delta \text{conix} cl(suix)= cosxdx = e suix / "2 = e - 1 $\int_0^{\infty} \tan \frac{x}{a} dx = 2 \int_0^{\infty} \tan \frac{x}{a} d\left(\frac{x}{a}\right)$  $\mathcal{L}(\frac{x}{2}) = \frac{1}{2} dx$ = 2 lu/secx//2 - lukoss/ = 2 ( lu 12 - (m1) = 2 ( \frac{1}{2} lu 2) lu 2 2 = { lu 2 ex = det = lult/ ex = lue x - lu 1  $\int_{0}^{\sqrt{2}} \frac{1}{2xe^{x^{2}}} \frac{1}{2xe^{x^{2}}} dx \qquad \int_{0}^{\sqrt{2}} \frac{1}{2xe^{x^{2}}} \frac{1}{2xe^{x^{2}}} dx$ = \( \langle \ = sci(ex) / lui Chix =x. = sin elno - sin eo = - rin 15

1+(ex)i olt ale\*)=e\*dx = \( \langle \text{d(ex)} \) \( \frac{1}{7} \text{(ex)} \) vant ex / lu 2 tan 2 - fai 1 = Frant's - I/ = 1 = 1 (4x+8) d(4x+8) = udx = (3+2ex)= 2exdx = in [3-20%] . Ency

$$\int_{-1}^{1} (x-1) (x^{2}-2x)^{2} dx \qquad d(x^{2}-2x) = (2x-a)dx$$

$$= \frac{1}{a} \int_{-1}^{1} (x^{2}-2x)^{2} d(x^{2}-2x)$$

$$= \frac{1}{16} (x^{2}-2x)^{8} \int_{-1}^{1}$$

$$= -\frac{1}{16} (x^{2}-$$

$$\int_{0}^{\infty} \frac{1}{\cos^{2}\theta} d\theta = -\int_{0}^{\infty} \frac{1}$$