$$\int xy \, db = -2y^{-2} + C$$

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

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

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

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

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

$$\int (2x^{2} + x^{2}) \, dx = \int x^{2} + C$$

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$$\int (2x^{2} + x^{2})$$

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

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

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

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

$$= -\left(-\frac{1}{3}x^{2} - 3 - \left(-\frac{9}{48} - \frac{9}{9}\right)\right) - \left(-\frac{1}{3} + 2 - 3\right)$$

$$= \frac{1}{3} + \frac{1}{3}$$

$$= \frac{1}{3} \cdot \frac{1}$$

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

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

$$= \frac{1}{6} (125 - 27)$$

$$= \frac{49}{3}$$

15 Cos 2 de

d (4+3 sin 8) = 3 cos 2 d 2

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

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

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

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

$$=0$$

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

= Somix d(suix) cl(suix)= cusxdx = e suix / 1/2 =e-1 $\int_0^{\infty} \tan \frac{x}{a} dx = 2 \int_0^{\infty} \tan \frac{x}{a} d(\frac{x}{a})$ $\mathcal{L}(\frac{x}{2}) = \frac{1}{2} dx$ = 2 lu/secx//2 - lukoss/ = 2 (lu 12 - (m1) = 2 (\frac{1}{2} lu 2) lud = fluz ex

{ dt = lu/t/ / ex = lucx - lu1 $\int_{0}^{\sqrt{\ln n^{2}}} 2xe^{x^{2}} dx \qquad l(e^{x^{2}}) = 2xe^{x^{2}} dx$ = \(\langle \text{Entit'} \) \(\cos (e^{\chi^2}) d(e^{\chi^2}) \) = sin(ex) / lui = sui elno - sui e° = - sui 15

1+(ex)= olx _l(ex)=exdx tant ex / anz tan-12 - tan-11 = family - 21/ = ((3+2ex)=2exdx

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

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

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

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

$$\int_{0}^{\pi/d} \frac{1}{\cos^{2}\theta} d\theta = -\int_{0}^{\pi/d} \frac{1}{\cos^{2}\theta} d\cos x$$

$$= \int_{0}^{\pi} \frac{1}{\cos^{2}\theta} \int_{0}^{\pi/d} \frac{1}{\sin^{2}x} dx$$

$$= \int_{0}^{\pi} \frac{1}{\cos^{2}x} dx$$

$$= \int_{0}^{\pi/d} \frac{1}{\sin^{2}x} dx$$

$$= \int_{0}^$$