Review: Integrals

Monday, January 8, 2018 11:05 AM

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

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

$$= \int_{0}^{\infty} \frac{d\omega}{u^{3}}$$

$$= (x^2+1)^{-2} + C$$

$$=\frac{3(x_{3}+1)}{-1}$$

2 either

notation for definite integrals with substitution:

$$= \int_{4}^{9} e^{2} \frac{dv}{d}$$

$$= e^{2} \int_{4}^{9} e^{2} \frac{dv}{d}$$

$$= e^{2} \int_{4}^{9} e^{2} \frac{dv}{d}$$

$$= \int_{x=3}^{x=3} e^{\frac{d\omega}{d}}$$

$$= \int_{x=3}^{x=3} e^{\frac{d\omega}{d}}$$