

Indefinite Integral

Math 106

Lecture 5

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$$\int F'(x)dx = F(x) + c.$$

Therefore, In general we can say that the derivative is the opposite operation of integral.

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$$(3) \int \frac{1-3t^3}{t^5} dt ?$$

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- $\int \frac{1}{1+x^2} dx = \tan^{-1} x + c,$
- $\int \frac{1}{x\sqrt{x^2-1}} dx = \sec^{-1} x + c, |x| > 1,$

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$$(1) \int \frac{\sin x}{\cos^2 x} dx ,$$

Thanks for listening.