

Class 21: The Chain Rule Backwards: Introduction to Substitutions Calculus II

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Figure 1: Created via <https://www.memecreator.org/template/oh-hai7/>.

Find the following anti-derivatives:

$$\int x^2 \cos(4x^3) dx \quad (1)$$

$$\int t^2 e^{5t^3} dt \quad (2)$$

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

$$\int \frac{x}{1+3x^2} dx \quad (4)$$

$$\int \cos(t^2) dt \quad (5)$$