

MATH 1325
Chapter 13.2: Integration By Substitution

REVIEW...

$$\int x^2 dx$$

$$\int 3x^{-4} dx$$

$$\int x^{-1} dx$$

INTEGRAL FORMULAS:

$$\int x^N dx = \frac{1}{N+1} x^{N+1} + C \quad N \neq -1$$

$$\int \frac{1}{x} dx = \ln|x| + C$$

$$\int e^{kx} dx = \frac{1}{k} e^{kx} + C$$

$$\int (4x+5)^9 dx$$

$$\int x^2 \sqrt{x^3+5} dx$$

$$\int \frac{x^2+5}{(x^3+15x)^2} dx$$

$$\int 2e^{x^2} x dx$$

$$\int \frac{dx}{9x+6}$$

$$\int x \sqrt[3]{1-x} dx$$