

4.5 u-substitution

$$\int x^3 (x^4 + 5)^9 dx$$

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

$$\int_3^{\sqrt{14}} \frac{2x}{\sqrt{x^2 - 5}} dx$$

$$\int x(x-1)^4 dx$$

$$\int \frac{8}{3+2x} dx$$

$$\int \frac{(\ln x)^7}{x} dx$$

$$\int_3^7 \frac{4x}{1+x^2} dx$$

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

$$\int_0^{\ln 4} \frac{e^x}{(1+e^x)^3} dx$$

$$\int \frac{e^x}{e^{-x} + 1} dx$$