$$\int f(g(x)) * g'(x) dx = \int f(u) du$$

$$\int x \sqrt{x^2 + 1} dx$$

$$\int x^3 \sqrt{x^2 - 9} dx$$

$$\int ((x^2)) \cdot g'(x) = \int (u) du$$

$$\int (x^3 \sqrt{x^2 - 9}) dx$$

$$\int ((x^3)) \times (x^3 + 1) \cdot (x^3$$