

Example 1.2

$$1) \quad f(x) = x(x^2-2)^3 = \frac{1}{2}(x^2-2)'(x^2-2)^3 \quad \left. \begin{array}{l} \text{Der} \\ u=x^2-2 \end{array} \right\}$$

$$F'(x) = \frac{1}{2} u' u^3 = \frac{1}{8} 4u' u^{4-1} = \frac{1}{8} (u^4)$$

$$\text{ donc } F(x) = \frac{1}{8} (x^2-2)^4 + C$$