

# EXERCÍCIO 1



$$\int \underbrace{(x^3 - 2)}^{1/7} \cdot \underbrace{x^2}_{dx} = \int (u)^{1/7} \frac{du}{3} = \frac{1}{3} \int u^{1/7} du =$$

$$= \frac{1}{3} \frac{u^{1/7+1}}{1/7+1} = \frac{1}{3} \frac{u^{8/7}}{8/7} =$$

$$= \frac{1}{3} \cdot \frac{7}{8} u^{8/7} = \frac{7}{24} u^{8/7} =$$

$$= \frac{7}{24} (x^3 - 2)^{8/7} + C$$

$$u = x^3 - 2$$

$$du = 3x^2 dx$$

$$\frac{du}{3} = x^2 dx$$