EXERCÍCIO 2

$$\int \frac{x}{\sqrt[5]{x^2-1}}\,dx = \int \frac{1}{\sqrt[5]{u^1}}\,\frac{du}{2} = \frac{1}{2}\int \frac{1}{u^{1/5}}\,du =$$

$u = x^2 - 1$

$du = 2x\,dx$

$\frac{du}{2} = x\,dx$

$$= \frac{1}{2}\int u^{-1/5}\,du = \frac{1}{2}\,\frac{u^{-\frac{1}{5}+1}}{-\frac{1}{5}+1} =$$

$$= \frac{1}{2}\,\frac{u^{4/5}}{4/5} = \frac{1}{2}\cdot\frac{5}{4}\,u^{4/5} = \frac{5}{8}\,u^{4/5} =$$

$$= \frac{5}{8}\,(x^2-1)^{4/5} + C \;//$$

$$\sqrt[c]{a^b} = a^{\frac{b}{c}}$$

$$\frac{1}{a^b} = a^{-b}$$