

EJERCICIO 12BE3384:

$$\int \frac{x^3 - 5x}{x-1} dx =$$

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$$\begin{array}{r} \cancel{x^3} - \cancel{x^3} + x^2 - 5x \\ \hline x^2 - 5x \\ \cancel{-x^2} + x \\ \hline -4x \\ +4x - 4 \\ \hline -4 \end{array} \quad \begin{array}{r} x-1 \\ \hline x^2+x-4 \end{array}$$

$$= \int \left(x^2 + x - 4 + \frac{-4}{x-1} \right) dx =$$

$$= \int x^2 dx + \int x dx - 4 \int dx - 4 \int \frac{dx}{x-1} =$$

$$= \boxed{\frac{x^3}{3} + \frac{x^2}{2} - 4x - 4 \ln|x-1| + C}$$