

EJERCICIO M2BE3061:

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

"achimages.com"

¡Racional, división!

$$\begin{array}{r} x^3 + 0x^2 - 5x + 5 \\ -x^3 - 3x^2 \\ \hline -3x^2 - 5x + 5 \\ +3x^2 + 9x \\ \hline 4x + 5 \\ -4x - 12 \\ \hline -7 \end{array} \quad \begin{array}{r} x+3 \\ \hline x^2 - 3x + 4 \end{array}$$

$$\frac{D(x)}{d(x)} = \frac{R(x)}{d(x)} + \frac{C(x)}{d(x)}$$

$$\frac{D(x)}{d(x)} = C(x) + \frac{R(x)}{d(x)}$$

$$= \int \left(x^2 - 3x + 4 - \frac{7}{x+3} \right) dx =$$

$$= \frac{x^3}{3} - \frac{3x^2}{2} + 4x - 7 \ln|x+3| + C$$