

$$9) c) (x^3 - x^2 + 9x - 9) : (x-1)$$

Por Ruffini

$$\begin{array}{r|rrrr} & 1 & -1 & 9 & -9 \\ 1 & & 1 & 0 & 9 \\ \hline & 1 & 0 & 9 & 0 \end{array}$$

$$\text{Cociente} = x^2 + 9$$

$$\text{Resto} = 0$$

$$(x^3 - x^2 + 9x - 9) = (x^2 + 9)(x - 1)$$

$$d) (2x^3 - 3x^2 + 10x - 15) : (2x - 3)$$

$$\begin{array}{r} 2x^3 - 3x^2 + 10x - 15 \quad \left| \begin{array}{l} 2x - 3 \\ x^2 + 5 \\ \text{cociente} \end{array} \right. \\ \underline{-2x^3 + 3x^2} \\ 0 10x - 15 \\ \underline{-10x + 15} \\ 0 \text{ Resto} \end{array}$$

$$(2x^3 - 3x^2 + 10x - 15) = (x^2 + 5)(2x - 3)$$