

A2

### A2 Polynomdivision

Führen Sie die angegebenen Polynomdivisionen durch.

a)  $(2x^3 + 4x^2 - 2x - 4) : (x - 1)$

b)  $(x^3 - x^2 + 3x - 3) : (x - 2)$

$$a) (2x^3 + 4x^2 - 2x - 4) : (x - 1) = 2x^2 + 6x + 4$$
$$\begin{array}{r} 2x^3 - 2x^2 \\ \hline \end{array}$$

$$\begin{array}{r} 6x^2 - 2x - 4 \\ 6x^2 - 6x \\ \hline 4x - 4 \end{array}$$

$$b) (x^3 - x^2 + 3x - 3) : (x - 2) = x^2 + x + 5 + \frac{7}{(x-2)}$$
$$\begin{array}{r} x^3 - 2x^2 \\ \hline \end{array}$$

$$\begin{array}{r} x^2 + 3x - 3 \\ x^2 - 2x \\ \hline 5x - 3 \\ 5x - 10 \\ \hline 7 \end{array}$$