

Check Your Understanding

Example 3 Given a polynomial and one of its factors, find the remaining factors of the polynomial.

4. $x^3 - 6x^2 + 11x - 6; x - 1$

5. $x^3 + x^2 - 16x - 16; x + 1$

$$\begin{array}{r} \boxed{} \\ - \\ \hline \end{array}$$

Write the result in polynom format

$$\boxed{}x^2 - 5x + \boxed{}$$

$$= (x \boxed{})(x \boxed{})$$

$$\begin{array}{r} \boxed{} \\ -16 \\ \hline 1 \quad 0 \quad \boxed{} \quad 0 \end{array}$$

Write the result in polynom format

$x^2 - \square$

$$= (x \boxed{})(x \boxed{})$$