Check Your Understanding

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

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

	1		11	
		1		6
			6	

Write the result in polynom format

$\square x^2 - 5x + \square$

$= (x \square)(x \square)$

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

	1			-16
			0	
	1	0		0

Write the result in polynom format

$x^2 - \square$

$= (x \square)(x \square)$