Dividing Polynomials

Dividing Polynomials is similar to long division:
Let's try 131 divided by 6 !

A "Division Statement" is a summary of your results expressed as a balanced equation.

DIVIDEND = DIVISOR x QUOTIENT + REMAINDER

Dividing Polynomials Example 1

$2x^2 - 3x - 1$ divided by $x + 2$

Dividing Polynomials Example 2

$x^3 - 7x + 8$ divided by $x + 4$

NOTE: the dividend and the divisor must be arranged in descending order with no terms missing (zeros as place holders)

Dividing Polynomials Example 3

$18x - 22 + 6x^3 - 19x^2$ divided by $2x - 5$

Dividing Polynomials Example 4

$x^4 - 15x^3 + 2x^2 + 12x - 10$ divided by $x^2 - 4$

Homework: Textbook pg 168-169 #2-5