

Divide by a monomial.

a) 
$$(x^3 + x - 2) \div x^3$$

b) 
$$\frac{18x^4 - 24x^2}{-6x}$$

## **6.5 Dividing Polynomials**

Divide by a binomial.

a) 
$$\frac{x^2 - 8x + 15}{x - 3}$$

b) 
$$\frac{x^2 + 10x - 9}{x - 3}$$

c) 
$$\frac{4y^3 + 12y^2 + 7y - 3}{2y + 3}$$

d) 
$$\frac{x^5 + 1}{x^2 + 1}$$

Perform this more complex division.

$$\frac{2x^3 + 2x^2 - 2x - 15}{2x^2 + 4x + 5}$$