Algebra - Polynomials

Grade 10 | Difficulty: Hard

1. Factorize: $x^3 - 6x^2 + 11x - 6$

2. Find the roots of the polynomial: $2x^3 - x^2 - 4x + 2 = 0$

3. Expand $(x - 2)(x^2 + 3x + 4)$

4. Determine the degree and leading coefficient of $5x^4 - 2x^3 + x - 7$

5. Find the remainder when $x^3 - 2x + 1$ is divided by $(x - 1)$