Polynomials with Imaginary Roots #1-4

1. Write the equation of the polynomial with the given zeros in standard form. You need to multiply out the factors. $x = 4, and\ x = 6i$	2. Write the equation of the polynomial with the given zeros in standard form. You need to multiply out the factors. $x = -5, \quad x = -2\ and\ x = -3i$
3. Find the remaining zeros of the polynomial and write the equation in factored form. $$f(x) = x^3 - x^2 + 16x - 16$$ $x = 4i$	4. Find the remaining zeros of the polynomial and write the equation in factored form. $$f(x) = x^4 - x^3 + 7x^2 - 9x - 18$$ $x = 3i$