Name		Date	Period
Show your work			
Find all the zeros and write the equation of the polynomial in factored form.			
1) $f(x) = x^4 - x^3 - 9x^2 + 3x + 18$ given $x = \sqrt{3}$ 2) $f(x) = x^3 - x^2 + 16x - 16$ given $x = 4i$			
Write the equation of the polynomial in standard form given the zeros			
3) x = 4, 6i		4) $x = -5, -3i, -2$	
5) Write the equation of the polynomial in factored form and sketch the graph			
x = 2 with multiplicity 2			
x = 1 with multiplicity 1			
x = -4 with multiplicity 3			
LCE is negative			
Has a selection to find a starting rough Days while in a rough of the control of			
Use a calculator to find a starting zero. Prove this is a zero using long or synthetic division. Find the remaining zeros			
using an appropriate method.	7) f() c3 . 202	45 200	0) (() 27.4 20.3 274.2 (4) 224
6) $f(x) = 9x^3 - 15x^2 + 11x - 5$	7) $f(x) = 6x^3 + 29x^2$	– 45x – 200	8) $f(x) = 27x^4 - 39x^3 - 274x^2 - 64x + 224$