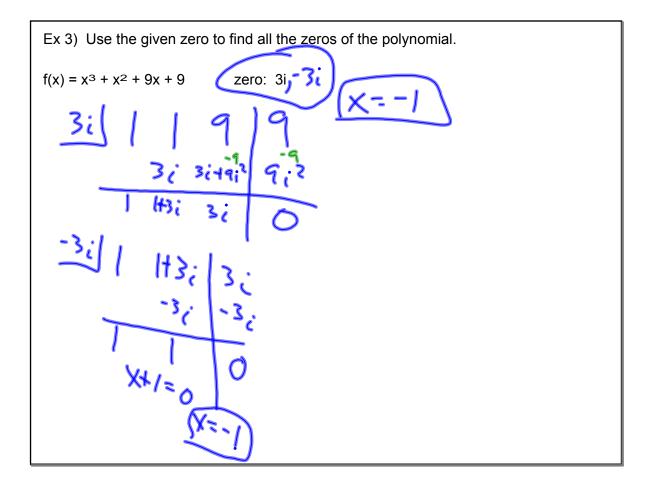
Day 2 on 2.5 Find a polynomial with the given zeros. Ex 1) -1, -1, 3i -3 (x+1)(x-3i)(x+3i) $(x^2+2x+1)(x^2+q)$ ×+1)/x 42x+1)+9(x2+2x+1) = x4+3x3+x2 -9 = X4+2x3+10x2+18x+0 Ex 2) $f(x) = x^2 + 1$ is said to be irreducible over the reals and is prime. But we can still write a linear factorization. (x+i)(x-i)(x+vz) (x+vz)



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Ex 4) Use the given zero to find all the zeros of the polynomial. (zero: 1 + 3i, 1-3i, 3 $f(x) = x^4 - 3x^3 + 6x^2 + 2x - 60$ 113i | 6 2 - 60 -3 (173; -2-3i+1i2 (13: -11-3: 4-18: 60 -2+3; -5-3; 6-18; O -11-30 (+3;)(5-3; $(1+3i)(6-18i)^{-18}i+18i^{-18}i^{-1$ ~³('~/₃'. 4-181 1-32 1 -2+32 -5-32 6-182 1-31 -1+31 -6 +191