

Precalculus Unit 2: 2.5 Homework
The Fundamental Theorem of Algebra

1. Find the zeros: $f(x) = (x + 9)(x + 2i)(x - 2i)$

2. Find the zeros: $f(x) = x^2 + 10x + 23$

3. Find the zeros: $g(x) = x^4 + 10x^2 + 9$

4. Find the zeros: $f(x) = x^4 - 8x^3 + 17x^2 - 8x + 16$

5. Use the zero $x = 5i$ to find all zeros of the function $f(x) = x^4 + x^3 + 19x^2 + 25x - 150$.