

Pre Cal Honors Chapter 3 Part II Complex Zeros

Lesson 216 | Precalculus | Polynomial zeros and division

<https://www.youtube.com/watch?v=lgmzjZ61oOg>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01 Find every real and complex zero: $x^2 + 2 \cdot x - 80$.

02 Find every real and complex zero: $x^3 - 2 \cdot x^2 + 100 \cdot x - 200$.

03 Find every real and complex zero: $x^4 - 232 \cdot x^2 + 7056$.

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04

Find every real and complex zero: $x^2 - 7x - 30$.

05

Find every real and complex zero: $x^3 - 8x^2 + 36x - 288$.

06

Find every real and complex zero: $x^4 - 340x^2 + 28224$.

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01 Find every real and complex zero: $x^2 + 2 \cdot x - 80$.

Factorization: $(x - 8) \cdot (x + 10)$. Zeros: -10, 8.

02 Find every real and complex zero: $x^3 - 2 \cdot x^2 + 100 \cdot x - 200$.

Factorization: $(x - 2) \cdot (x^2 + 100)$. Zeros: 2.

03 Find every real and complex zero: $x^4 - 232 \cdot x^2 + 7056$.

Factorization: $(x - 14) \cdot (x - 6) \cdot (x + 6) \cdot (x + 14)$. Zeros: -14, -6, 6, 14.

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04 Find every real and complex zero: $x^2 - 7x - 30$.

Factorization: $(x - 10)(x + 3)$. Zeros: -3, 10.

05 Find every real and complex zero: $x^3 - 8x^2 + 36x - 288$.

Factorization: $(x - 8)(x^2 + 36)$. Zeros: 8.

06 Find every real and complex zero: $x^4 - 340x^2 + 28224$.

Factorization: $(x - 14)(x - 12)(x + 12)(x + 14)$. Zeros: -14, -12, 12, 14.