

2021The Secret of Finding Polynomial Rational and Irrational Zeros

Lesson 207 | Precalculus | Polynomial zeros and division

<https://www.youtube.com/watch?v=PKvsKv5TcoE>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Find every real and complex zero: $x^2 - x - 90$.

02

Find every real and complex zero: $x^3 - 2 \cdot x^2 + 81 \cdot x - 162$.

03

Find every real and complex zero: $x^4 - 200 \cdot x^2 + 784$.

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Name: _____ Date: _____ Show your reasoning.

04 Find every real and complex zero: $x^2 + x - 42$.

05 Find every real and complex zero: $x^3 - 2 \cdot x^2 + 16 \cdot x - 32$.

06 Find every real and complex zero: $x^4 - 218 \cdot x^2 + 8281$.

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01 Find every real and complex zero: $x^2 - x - 90$.

Factorization: $(x - 10)(x + 9)$. Zeros: -9, 10.

02 Find every real and complex zero: $x^3 - 2x^2 + 81x - 162$.

Factorization: $(x - 2)(x^2 + 81)$. Zeros: 2.

03 Find every real and complex zero: $x^4 - 200x^2 + 784$.

Factorization: $(x - 14)(x - 2)(x + 2)(x + 14)$. Zeros: -14, -2, 2, 14.

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04 Find every real and complex zero: $x^2 + x - 42$.

Factorization: $(x - 6)(x + 7)$. Zeros: -7, 6.

05 Find every real and complex zero: $x^3 - 2x^2 + 16x - 32$.

Factorization: $(x - 2)(x^2 + 16)$. Zeros: 2.

06 Find every real and complex zero: $x^4 - 218x^2 + 8281$.

Factorization: $(x - 13)(x - 7)(x + 7)(x + 13)$. Zeros: -13, -7, 7, 13.