

The Most Efficient and Effective Way of Factoring Polynomials in Algebra (Chapter 7 Poly...

Lesson 007 | Algebra I | Factoring polynomials

https://www.youtube.com/watch?v=_aHKZuEOLxA

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Factor completely over the real numbers: $x^2 + x - 20$.

02

Factor completely over the real numbers: $x^3 - 4x^2 + 49x - 196$.

03

Factor completely over the real numbers: $x^4 - 245x^2 + 9604$.

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04

Factor completely over the real numbers: $x^2 - 4x - 12$.

05

Factor completely over the real numbers: $x^3 - 8x^2 + 169x - 1352$.

06

Factor completely over the real numbers: $x^4 - 185x^2 + 2704$.

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01

Factor completely over the real numbers: $x^2 + x - 20$.

Factorization: $(x - 4)(x + 5)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.

02

Factor completely over the real numbers: $x^3 - 4x^2 + 49x - 196$.

Factorization: $(x - 4)(x^2 + 49)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.

03

Factor completely over the real numbers: $x^4 - 245x^2 + 9604$.

Factorization: $(x - 14)(x - 7)(x + 7)(x + 14)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.

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04

Factor completely over the real numbers: $x^2 - 4x - 12$.

Factorization: $(x - 6)(x + 2)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.

05

Factor completely over the real numbers: $x^3 - 8x^2 + 169x - 1352$.

Factorization: $(x - 8)(x^2 + 169)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.

06

Factor completely over the real numbers: $x^4 - 185x^2 + 2704$.

Factorization: $(x - 13)(x - 4)(x + 4)(x + 13)$. Expand the factors to check the original expression. Quadratic factors with negative discriminant remain irreducible over the reals.