Download Factoring 3rd Degree Polynomials

How to Factor a Cubic Polynomial. This is an article about how to factorize a 3rd degree polynomial. We will explore how to factor using grouping as well as using the factors of the free term. Group the polynomial into two sections....For example, let G(x) = $8x^3 – 125$. Then factoring this third degree polynomial relies on a difference of cubes as follows: $(2x – 5) (4x^2 + 10x + 25)$, where 2x is the cube-root of $8x^3$ and 5 is the cube-root of 125. Because $4x^2 + 10x + 25$ is prime, you are done factoring.On this page we learn how to factor polynomials with 3 terms (degree 2), 4 terms (degree 3) and 5 terms (degree 4). We'll make use of the Remainder and Factor Theorems to decompose polynomials into their factors. What are we looking for? Example 1. An example of a polynomial (with degree 3) is:, Factoring 3rd Degree Polynomials.

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