Download Use Synthetic Division

Synthetic division is a shorthand, or shortcut, method of polynomial division in the special case of dividing by a linear factor -- and it only works in this case. Synthetic division is generally used, however, not for dividing out factors but for finding zeroes (or roots) of polynomials.In order to divide polynomials using synthetic division, you must be dividing by a linear expression and the leading coefficient (first number) must be a 1. For example, you can use synthetic division to divide by x + 3 or x – 6, but you cannot use synthetic division to divide by x 2 + 2 or 3x 2 – x + 7.How to Divide Polynomials Using Synthetic Division - Steps Write down the problem. Reverse the sign of the constant in the divisor. Place this number outside the upside-down division symbol. Write all of the coefficients of the dividend inside the division symbol. Bring down the first ...Synthetic Division - This video shows how you can use synthetic division to divide a polynomial by a linear expression. It also shows how synthetic division can be used to evaluate polynomials!, Use Synthetic Division.

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