Vocabulary: Modeling the Factorization of *x*2 + *bx* + *c*

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**Vocabulary**

* Factor – to express a number or polynomial as a product.
  + Example: 20 = 2 • 2 • 5 = 22 • 5
  + Example: *x*2 – 9 = (*x* + 3)(*x* – 3)
  + The values multiplied together are called *factors*.
* Monomial – a number, a variable, or the product of numbers and variables.
  + Some examples of monomials are 7, *y*5, , and –9*ab*2.
  + *Monomials* can also be called *terms*.
  + Any exponents in a monomial must be positive integers.
* Polynomial – an expression consisting of one or more monomials added to or subtracted from each other.
  + A *binomial* is a polynomial with exactly two terms.
    - * Examples: 5*c*3 – 6, 2*xy* + 7*x*2
  + A *trinomial* is a polynomial with exactly three terms.
    - * Examples: 2*m*2 – 6*m* + 5, 8*a*2 + 21*ab* + 34*b*2
* Zero pair – a pair of numbers or monomials whose sum is zero.
* For example, –*x* and *x* are a zero pair, because –*x* + *x* = 0.