

Cube of a Binomial

To find the cube of a binomial of the form $(x + y)^3$:

1. Find the cube of each term to get the first and the last terms.
2. The second term is three times the product of the square of the first term and the second term.
3. The third term is three times the product of the first term and the square of the second term.

In symbols,

$$(x + y)^3 = x^3 + 3x^2y + 3xy^2 + y^3.$$