Now do you factor polynomials, Step 1: Find and remove the GCF (Greatest Common Factor) How many terms does trinomial 4 terms the polynomial have? binomial Use the grouping Product & Sum method of factoring. Method of Factoring Make the X. Tic-tac-toe. Do the terms contain only perfect squares or perfect cubes? Squares Cubes $a^{3} - b^{3} = (a - b)(a^{2} + ab + b^{2})$ $a^{3} + b^{3} = (a + b)(a^{2} - ab + b^{2})$ $a^2 - b^2 = (a + b)(a - b)$