

SOME EXPANSIONS:

1. $a^2 - b^2 = (a - b)(a + b)$

2. $a^2 + b^2 = (a + b)^2 + 2ab = (a - b)^2 + 2ab$

3. $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

4. $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$