SPECIAL BINOMIALS FACTORS

No.	Special Binomial Factors	
1.	**Difference of Squares:**	$\boldsymbol{a^2 - b^2 = (a + b)(a - b)}$
	example:	$x^2 - 4 = (x + 2)(x - 2)$
2.	**Sum of Squares:**	**Prime (cannot be factored)**
	example:	$x^2 + 4 = Prime$
3.	**Difference of Cubes:**	$\boldsymbol{a^3 - b^3 = (a - b)(a^2 + ab + b^2)}$
	example:	$x^3 - 64 = (a - 4)(a^2 + 4a + 16)$
4.	**Sum of Cubes:**	$\boldsymbol{a^3 + b^3 = (a + b)(a^2 - ab + b^2)}$
	example:	$x^3 + 27 = (x + 3)(x^2 - 3x + 9)$
5.	**Perfect Square Trinomial-1:**	$\boldsymbol{(a + b)^2 = a^2 + 2ab + b^2}$
	example:	$(x + 5)^2 = x^2 + 10x + 25$
6.	**Perfect Square Trinomial-2:**	$\boldsymbol{(a - b)^2 = a^2 - 2ab + b^2}$
	example:	$\boldsymbol{(x - 3)^2 = x^2 - 6x + 9}$