Cheatography

year 10 exam Cheat Sheet

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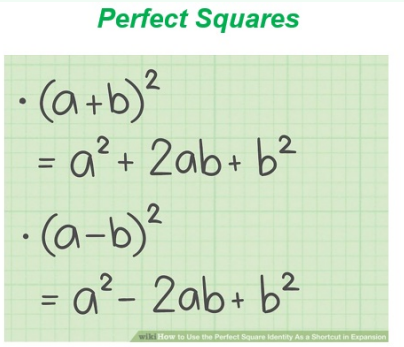
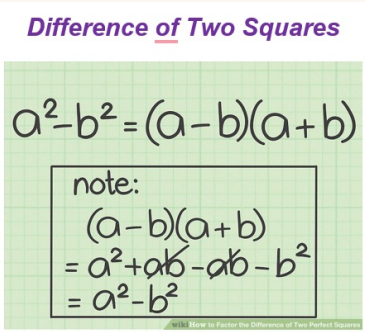
Perfect Squares



Example of Perfect Squares

$(x + 1)^2$	$(2x - 5)^2$	$(x + 2\sqrt{3})^2$
$x^2 + 2x + 1$	$4x^2 - 20x + 5^2$	$x^2 + 4\sqrt{6}x + 2\sqrt{3}^2$
	$4m^2 - 20x + 25$	$x^2 + 4\sqrt{6}x + 12$

Difference of Two Squares



Examples of Difference of Two Squares

(x - 1) (x + 1)	(2m + 5) (2m - 5)
$x^2 + x - x - 1$	$4m^2 - 10m + 10m - 25$
$x^2 - 1$	$4m^2 - 25$

$(\sqrt{3}x + \sqrt{5})(\sqrt{3}x + \sqrt{5})$
$3x^2 - \sqrt{15} + \sqrt{15}$
$3x^2 - 5$

Polynomial signs

Quadratic equation	Sign of factors
$ax^2 + bx + c$	Positive sign for both factors + +
$ax^2 - bx + c$	Negative sign for both factors - -
$ax^2 + bx - c$	- for small number, + for large number
$ax^2 - bx - c$	+ for small number, - for large number

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