Quadratic Formula		
If $ax^2 + bx + c = 0$, $a \neq 0$,		
$ \rightarrow \mathbf{r} - \frac{-b \pm \sqrt{b^2 - 4ac}}{-b \pm \sqrt{\Delta}} = -b \pm \sqrt{\Delta} $		
	$\rightarrow x - \frac{2a}{2a}$	2a
$Discriminant = \Delta = b^2 - 4ac$		
Case	Nature of its roots	
$\Delta > 0$	• There are two distinct real root to the equation, $ax^2 + bx + bx + ax^2 + bx + b$	ots $\mathbf{c} = 0.$ $\mathbf{b} \pm \sqrt{\Delta}$ $\mathbf{2a}$
$\Delta = 0$	• There is one repeated real solution to the equation, $ax^2 + bx + c = 0$. $x = \frac{-b}{2a}$	
Δ< 0	• There are two distinct complex solutions, to the equation, $ax^2 + bx + c = 0$ which are complex conjugates of each other. $x = \frac{-b \pm i\sqrt{4ac - b^2}}{2a} = \frac{-b \pm i\sqrt{-\Delta}}{2a}$	