

<p>GRoWTh</p>	<p>Factored Form</p>																																												
<p>Graph</p>																																													
<p>Rule</p>	<p>Solve quadratic functions by factoring.</p> <p>EX: $ax^2 + bx + c = 0$ → standard form</p> <p>$a(x-p)(x-q) = 0$ → Factored form</p> <p>$x-p = 0$ → $x = p$</p> <p>$x-q = 0$ → $x = q$</p> <p>Box Method or X Method</p>																																												
<p>Words</p>	<p>* Solving quadratic functions by factoring is an application of the zero product property.</p> <p>EX: $(x+3)(x+5) = 0$ Factored form: $a(x-p)(x-q) = 0$</p> <p>* There are 0, 1 or 2 solutions.</p> <p>* p & q are the x-intercepts (zeros), roots (factor)</p>																																												
<p>Table</p>	<table border="1"> <thead> <tr> <th>x</th> <th>$ax+bx+c$</th> <th>$f(x)$</th> <th>$(x, f(x))$</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>vertex</p> <p>solutions $x =$ when $y = 0$</p>	x	$ax+bx+c$	$f(x)$	$(x, f(x))$																																								
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