

--- Reference Sheet for FINAL EXAM: Unit 2 Quadratics---

<p><i>Standard Form</i></p>	<p align="center">$y = ax^2 + bx + c$</p> <p>“a” controls: opening <i>UP</i> or <i>DOWN</i> and the <i>steepness</i> of the parabola</p> <p>“c” – is the Y-intercept $\rightarrow (0, c)$</p>	<div data-bbox="1266 191 1587 548"> </div> <p>$y = -2x^2 + 6x - 4$</p>
<p><i>Factored Form</i> (aka Intercept Form)</p>	<p align="center">$y = a(x - x_1)(x - x_2)$</p> <p>“a” controls: opening <i>UP</i> or <i>DOWN</i> and the <i>steepness</i> of the parabola</p> <p>x-intercepts are $(x_1, 0)$ and $(x_2, 0)$</p>	<div data-bbox="1266 573 1587 889"> </div> <p>$y = \frac{1}{2}(x + 3)(x - 5)$</p>
<p><i>X-intercept(s)</i></p> <p>To solve for it:</p> <p align="center">$(\rule{1cm}{0.4pt}, 0)$</p>	<p><i>Y-intercept</i></p> <p>To solve for it:</p> <p align="center">$(0, \rule{1cm}{0.4pt})$</p>	<p align="center"><i>Axis of Symmetry</i> (aka “AoS”)</p> <p>To solve for it:</p>

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<i>Factoring and Solving</i>		
<u><i>GCF</i></u>	<u><i>Target Product + Sum</i></u>	<u><i>Zero Product Property</i></u>
$6x^2 + 10x$	$x^2 + 2x - 15$	$(x - 7)(x + 1) = 0$

You can write any other QUADRATICS related NOTES and EXAMPLES you like below: