MBF 3C1

Name: \_\_\_\_\_

## UNIT 2 SURVIVAL GUIDE: Quadratic Relations in Factored Form

MULTIPLYING BINOMIALS	COMMON FACTORING	FACTORING BY SUM & PRODUCT
• every term in the first bracket must be by each term in the second bracket eg. $(2x+1)(3x-4)$ F O I L	<ol> <li>find the</li></ol>	<ul> <li>use this method when given a polynomial in the form</li></ul>
CONVERTING VERTEX TO STANDARD FORM	FACTORING BY DIFFERENCE OF SQUARES	MIXED FACTORING
• expand using the distributive property (make sure to write equation out in) eg. $y = 3(x+2)^2 - 8$	<ul> <li>make sure the binomial has <ol> <li>terms <ol> <li>terms</li> <li>terms</li> <li>even powers only</li> </ol> </li> <li>set up two brackets</li> <li>put the square root of each term into each of the brackets</li> <li>in one bracket separate the terms with aand in the other with aeg. 49x<sup>2</sup> - 64</li> </ol></li></ul>	<ul> <li>always check for first</li> <li>factor using the most appropriate method: or (for trinomials)</li> <li>check the in the answer to see if they can be factored further</li> <li>eg. 2x<sup>4</sup>-2</li> </ul>
<ul> <li>when an equation is in standard form, the</li> <li>can be located; it is the value of</li> </ul>		

