

Unit 9: Factoring Quadratics
 FACTORING -Day 3 HOMEWORK

Name Key
 Date: _____ Period: _____

Factor the trinomial.

1. $3x^2 + 7x + 2$

$(3x+1)(x+2)$

	x	2
$3x$	$3x^2$	$6x$
$+1$	x	2



2. $2p^2 + 7p + 3$

$(2p+1)(p+3)$

	p	3
$2p$	$2p^2$	$6p$
$+1$	p	3



3. $2r^2 + 5r + 3$

$(2r+3)(r+1)$

	r	3
$2r$	$2r^2$	$3r$
$+1$	$2r$	3



4. $3z^2 + 4z - 4$

$(3z+2)(z+2)$

	z	2
$3z$	$3z^2$	$6z$
$+2$	$2z$	-4



5. $9x^2 - 16$

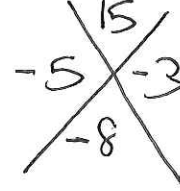
$(3x+4)(3x-4)$

** difference of squares*

6. $3c^2 - 8c + 5$

$(3c-5)(c-1)$

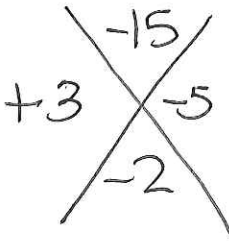
	c	-5
$3c$	$3c^2$	$-5c$
-1	$-3c$	5



7. $3x^2 - 2x - 5$

$(3x-5)(x+1)$

	x	-5
$3x$	$3x^2$	$-5x$
$+1$	$3x$	-5



8. $4n^2 + 4n - 3$

$(2n+3)(2n-1)$

	$2n$	3
$2n$	$4n^2$	$6n$
-1	$-2n$	-3



9. $4x^2 - 9$

$(2x+3)(2x-3)$