

Name : _____

Factoring Polynomials - Box Method

Sheet 3

Factorize each polynomial using box method.

1) $x^2 - x - 72$

2) $4x^2 + 12x + 9$

3) $5x^2 + 38x - 16$

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5) $x^2 + 17x + 60$

Factoring Polynomials - Box Method

Factorize each polynomial using box method.

1) $x^2 - x - 72$

	x	-9
x	x^2	$-9x$
8	$8x$	-72

$(x - 9)$

2) $4x^2 + 12x + 9$

	2x	3
2x	$4x^2$	$6x$
3	$6x$	9

$+ 3)(2x + 3)$

3) $5x^2 + 38x - 16$

	x
5x	$5x^2$
-2	$-2x$

$(x + 8)$

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5) $x^2 + 17x + 60$

	x
x	x^2
12	$12x$

$(x + 5)(x + 12)$

	3
7x	$7x^2$
-2	$-2x$

$(x + 3)(7x - 2)$