

Name : _____

Multiplying Trinomials

Sheet 1

Find the product using box method.

1) $(x^2 + 3x + 4)(x^3 + 6x^2 + 2x)$

2) $(a^3b^3 + 5a^2b^2 - ab)(3a^2b^2 - 15ab + 1)$

3) $(-m^3n^4 + m^2n^3 + mn^2)$

$g^3 + 10g^2 + g)$

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5) $(-16t^3 - t^2 + 4t)(-4t^6 -$

$4t^5 + q - 2)$

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Multiplying Trinomials

Find the product using box method.

1) $(x^2 + 3x + 4)(x^3 + 6x^2 + 2x)$

	x^3	$6x^2$	$2x$
x^2	x^5	$6x^4$	$2x^3$
$3x$	$3x^4$	$18x^3$	$6x^2$
4	$4x^3$	$24x^2$	$8x$

$x^5 + 9x^4 +$

2) $(a^3b^3 + 5a^2b^2 - ab)(3a^2b^2 - 15ab + 1)$

	$3a^2b^2$	$-15ab$	1
a^3b^3	$3a^5b^5$	$-15a^4b^4$	a^3b^3
$5a^2b^2$	$15a^4b^4$	$-75a^3b^3$	$5a^2b^2$
$-ab$	$-3a^3b^3$	$15a^2b^2$	$-ab$

$-77a^3b^3 + 20a^2b^2 - ab$

3) $(-m^3n^4 + m^2n^3 + mn^2)(2m^6n^6 - 2m^5n^5 - 2m^4n^4)$

	$-2m^3n^2$
$-m^3n^4$	$2m^6n^6$
m^2n^3	$-2m^5n^5$
mn^2	$-2m^4n^4$

$2m^6n^6 -$

$g^3 + 10g^2 + g$

	$10g^2$	g
	$10g^7$	g^6
	$-70g^6$	$-7g^5$
	$-90g^5$	$-9g^4$

$7g^7 - 60g^6 - 97g^5 - 9g^4$

5) $(-16t^3 - t^2 + 4t)(-4t^6 - t^5 - t^4 - 2)$

	$-4t^6$	$-t^5$	$-t^4$
$-16t^3$	$64t^9$	$16t^8$	$16t^7$
$-t^2$	$4t^8$	t^7	t^6
$4t$	$-16t^7$	$-4t^6$	$-4t^5$

$64t^9 + 20t^8 + t^7 - 3t^6 - 4t^5$

$(q^2 + q - 2)$

	q^2	q	-2
$8q^6$	$8q^8$	$8q^7$	$-16q^6$
$4q^5$	$4q^7$	$4q^6$	$-8q^5$
$5q^4$	$5q^6$	$5q^5$	$-10q^4$

$8q^8 + 12q^7 - 7q^6 - 3q^5 - 10q^4$

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