

Name : _____

Multiplying Trinomials

Sheet 2

Find the product using box method.

1) $(9y^3z^2 + y^2z + y)(-9y^5z^4 + y^4z^3 - 5y^3z^2)$

2) $(c^3 + 3c^2 - 2c)(4c^5 - 12c^4 - 8c^3)$

3) $(-14u^4 - 2u^3 + u^2)(-7u^3 - 4u^2 + 2u)$

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$(s^4t^2 - s^3t + s^2)$

5) $(-5r^6 + 3r^5 + r^4)(r^4 - 6r^3 + 5r^2)$

$(s^4t^2 - s^3t + s^2)$

Multiplying Trinomials

Find the product using box method.

1) $(9y^3z^2 + y^2z + y)(-9y^5z^4 + y^4z^3 - 5y^3z^2)$

	$-9y^5z^4$	y^4z^3	$-5y^3z^2$
$9y^3z^2$	$-81y^8z^6$	$9y^7z^5$	$-45y^6z^4$
y^2z	$-9y^7z^5$	y^6z^4	$-5y^5z^3$
y	$-9y^6z^4$	y^5z^3	$-5y^4z^2$

$-81y^8z^6 - 53$

2) $(c^3 + 3c^2 - 2c)(4c^5 - 12c^4 - 8c^3)$

	$4c^5$	$-12c^4$	$-8c^3$
c^3	$4c^8$	$-12c^7$	$-8c^6$
$3c^2$	$12c^7$	$-36c^6$	$-24c^5$
$-2c$	$-8c^6$	$24c^5$	$16c^4$

$4c^8 - 52c^6 + 16c^4$

3) $(-14u^4 - 2u^3 + u^2)(-7u^2 + 4u - 3)$

	$-7u^2$	$4u$	-3
$-14u^4$	$98u^6$	$-42u^5$	$42u^4$
$-2u^3$	$14u^5$	$-28u^4$	$6u^3$
u^2	$-7u^4$	$4u^3$	$-3u^2$

$98u^6 + 3$

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

	$-4n^2$	$2n$
n^3	$-4n^8$	$2n^7$
$-4n^2$	$12n^7$	$-6n^6$
$2n$	$24n^6$	$-12n^5$

$8 + 20n^7 + 18n^6 - 12n^5$

5) $(-5r^6 + 3r^5 + r^4)(r^4 - 6r^3 - 4r^2)$

	r^4	$-6r^3$	$-4r^2$
$-5r^6$	$-5r^{10}$	$30r^9$	$20r^8$
$3r^5$	$3r^9$	$-18r^8$	$-12r^7$
r^4	r^8	$-6r^7$	$-4r^6$

$-5r^{10} + 33r^9 + 3r^8 - 18r^7 - 4r^6$

$(s^4t^2 - s^3t + s^2)$

	s^4t^2	$-s^3t$	s^2
$-s^6t^5$	$-s^{10}t^7$	s^9t^6	$-s^8t^5$
$-s^5t^4$	$-s^9t^6$	s^8t^5	$-s^7t^4$
$-s^4t^3$	$-s^8t^5$	s^7t^4	$-s^6t^3$

$-s^{10}t^7 - s^8t^5 - s^6t^3$

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