

Name : _____

Multiplying Binomials

Sheet 1

Find the product using box method.

1) $(-g^3h^5 + g^3)(-g^2h^5 + g^2)$

2) $(-10a^3 + 5a^2)(-2a^6 - 7a^5)$

3) $(-5s - 7)(4s + 8)$

4) $(-u^5v^2 - v^2w)(u^5 - w)$

5) $(-2y^4 - 9y^3)(-2y^4 - 9y^3)$

6) $(6z^5 - 18z^4)(-z^6 - 3z^5)$

Multiplying Binomials

Find the product using box method.

1) $(-g^3h^5 + g^3)(-g^2h^5 + g^2)$

	$-g^2h^5$	g^2
$-g^3h^5$	g^5h^{10}	$-g^5h^5$
g^3	$-g^5h^5$	g^5

$g^5h^{10} - 2g^5h^5 + g^5$

2) $(-10a^3 + 5a^2)(-2a^6 - 7a^5)$

	$-2a^6$	$-7a^5$
$-10a^3$	$20a^9$	$70a^8$
$5a^2$	$-10a^8$	$-35a^7$

$20a^9 + 60a^8 - 35a^7$

3) $(-5s - 7)(4s + 8)$

	$4s$	8
$-5s$	$-20s^2$	$-40s$
-7	$-28s$	-56

$-20s^2 - 68s - 56$

4) $(-u^5v^2 - v^2w)(u^5 - w)$

	u^5	$-w$
$-u^5v^2$	$-u^{10}v^2$	u^5v^2w
$-v^2w$	$-u^5v^2w$	v^2w^2

$-u^{10}v^2 + v^2w^2$

5) $(-2y^4 - 9y^3)(-2y^4 - 9y^3)$

	$-2y^4$	$-9y^3$
$-2y^4$	$4y^8$	$18y^7$
$-9y^3$	$18y^7$	$81y^6$

$4y^8 + 36y^7 + 81y^6$

6) $(6z^5 - 18z^4)(-z^6 - 3z^5)$

	$-z^6$	$-3z^5$
$6z^5$	$-6z^{11}$	$-18z^{10}$
$-18z^4$	$18z^{10}$	$54z^9$

$-6z^{11} + 54z^9$