

Name : _____

Multiplying Polynomials

Sheet 1

Find the product using box method.

1) $(4x^5 + 2x^4)(x^3 + x^2 + 3x + 10)$

2) $(a^2b - 5b)(a^6b^4 + 5a^4b^3)$

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

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Multiplying Polynomials

Find the product using box method.

1) $(4x^5 + 2x^4)(x^3 + x^2 + 3x + 10)$

	x^3	x^2	$3x$	10
$4x^5$	$4x^8$	$4x^7$	$12x^6$	$40x^5$
$2x^4$	$2x^7$	$2x^6$	$6x^5$	$20x^4$

2) $(a^2b - 5b)(a^6b^4 + 5a^5b^5)$

	a^6b^4	
a^2b	a^8b^5	$5a^7b^5$
$-5b$	$-5a^6b^5$	$-25a^5b^5$

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

	$-s^4$	$2s^3$	$-7s^2$	$14s$
$-2s$	$2s^5$	$-4s^4$	$14s^3$	$-28s^2$
-4	$4s^4$	$-8s^3$	$28s^2$	$-56s$

$$2s^5 + 6s^3 - 56s$$

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