

Name : _____

Multiplying Binomials & Trinomials

Sheet 3

Find the product using box method.

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

2) $(-k^5 + 9k^4)(5k^6 - 7k^5 - 8k^4)$

3) $(-8s^2 - 8s)(-s^3 - 2s^2 -$

$u^5 - u^4)$

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

$+ c^3d^2 - 5c^2d)$

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Multiplying Binomials & Trinomials

Find the product using box method.

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

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

2) $(-k^5 + 9k^4)(5k^6 - 7k^5 - 8k^4)$

	$5k^6$	$-7k^5$	$-8k^4$
$-k^5$	$-5k^{11}$	$7k^{10}$	$8k^9$
$9k^4$	$45k^{10}$	$-63k^9$	$-72k^8$

3) $(-8s^2 - 8s)(-s^3 - 2s^2 - 4s - 5)$

	$-s^3$	
$-8s^2$	$8s^5$	
$-8s$	$8s^4$	

$8s^5 + 24s^4 - 32s^3 - 40s^2 - 40s - 20$

4) $(u^5 - u^4)(u^3 + 18u^2 + 17u + 1)$

	u^5	$-u^4$
	$17u^9$	$-17u^8$
	$-u^8$	u^7

$u^{10} + 18u^9 - 17u^8 + u^7$

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

	$-6p^5$	$-3p^4$	p^3
$-2p^2$	$12p^7$	$6p^6$	$-2p^5$
p	$-6p^6$	$-3p^5$	p^4

$12p^7 - 5p^5 + p^4$

$(7c^4d^3 + 3c^2d)(4c^2d^2 - 11c^4d^2 - 20c^3d)$

	$7c^4d^3$	c^3d^2	$-5c^2d$
$3c^2d$	$21c^6d^4$	$3c^5d^3$	$-15c^4d^2$
$4c$	$28c^5d^3$	$4c^4d^2$	$-20c^3d$

$21c^6d^4 + 31c^5d^3 - 11c^4d^2 - 20c^3d$

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