

Name : \_\_\_\_\_

## Multiplying Polynomials

Sheet 3

Find the product using box method.

1)  $(7u^3 + u^2)(-6u^3 - 2u^2 - 5u - 3)$


2)  $(-pq^3 - q^2)(p^5q^4 - p^4q^3)$


3)  $(-8d^3 + 2d^2)(-11d^6 - 3d^5)$


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**Multiplying Polynomials**

Find the product using box method.

1)  $(7u^3 + u^2)(-6u^3 - 2u^2 - 5u - 3)$

	$-6u^3$	$-2u^2$	$-5u$	$-3$
$7u^3$	$-42u^6$	$-14u^5$	$-35u^4$	$-21u^3$
$u^2$	$-6u^5$	$-2u^4$	$-5u^3$	$-3u^2$

2)  $(-pq^3 - q^2)(p^5q^4 - p^4q^3)$

	$p^5q^4$	
$-pq^3$	$-p^6q^7$	
$-q^2$	$-p^5q^6$	

3)  $(-8d^3 + 2d^2)(-11d^6 - 4d^5 + 4d^4 + 10d^3)$

	$-11d^6$	$-4d^5$	$-4d^4$	$10d^3$
$-8d^3$	$88d^9$	$32d^8$	$8d^7$	$-32d^6$
$2d^2$	$-22d^8$	$-8d^7$	$-2d^6$	$8d^5$

$$88d^9 + 10d^8 - 34d^6 + 8d^5$$

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