

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

## Multiplying Polynomials

Sheet 2

Find the product using box method.

1)  $(-5m^2 - 10m)(m^6 + m^5 - 2m^4 + 4m^3)$


2)  $(-12t + 6)(-8t^5 - 4t^4)$


3)  $(4gh^2 - h)(g^6h^4 + 10)$


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**Multiplying Polynomials**

Find the product using box method.

1)  $(-5m^2 - 10m)(m^6 + m^5 - 2m^4 + 4m^3)$

	$m^6$	$m^5$	$-2m^4$	$4m^3$
$-5m^2$	$-5m^8$	$-5m^7$	$10m^6$	$-20m^5$
$-10m$	$-10m^7$	$-10m^6$	$20m^5$	$-40m^4$

2)  $(-12t + 6)(-8t^5 - 4t^4)$

	$-8t^5$	
$-12t$	$96t^6$	
$6$	$-48t^5$	

3)  $(4gh^2 - h)(g^6h^4 + 10g^5h^4 - 9g^4h^3 - g^3h^2)$

	$g^6h^4$	$10g^5h^4$	$-9g^4h^3$	$-g^3h^2$
$4gh^2$	$4g^7h^6$	$40g^6h^5$	$20g^5h^4$	$-4g^4h^3$
$-h$	$-g^6h^5$	$-10g^5h^4$	$-5g^4h^3$	$g^3h^2$

$$4g^7h^6 + 39g^6h^5 + 10g^5h^4 - 9g^4h^3 + g^3h^2$$

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