

Multiplying Polynomials with the Box Method

Example 1: $(7m - 2)(3m + 4)$

	$7m$	-2	
$3m$	$21m^2$	$-6m$	$21m^2 + 22m - 8$
4	$28m$	-8	

Example 2: $(x + 3)(x^2 - 6x + 2)$

	x	3
x^2	x^3	$3x^2$
$-6x$	$-6x^2$	$-18x$
2	$2x$	6

$$x^3 - 3x^2 - 16x + 6$$

Example 3: $(x^2 - 4x + 1)(x^2 - 6x)$

	x^2	$-6x$
x^2	x^4	$-6x^3$
$4x$	$-4x^3$	$24x^2$
1	x^2	$-6x$

$$x^4 - 10x^3 + 25x^2 - 6x$$

Polynomial Hunt!

Once you've found and shown work for your 6 polynomials, you can turn it in to the red basket :)

Homework Page 2.2 in Packet

