Name:	Date:	Period:

Operations of Polynomials

Standard Form: _____
_____

Circle the expression below that is in standard form.

$x - 4x^2 + 5x^3 + 3$ $5x^3 - 4x^2 + x + 3$

Arrange each polynomial in **standard form**, then state the **degree** and number of **terms**.

1. $2x + x^3 - 4 + 5x^2$

2. $7 - 6x^2 + x^3 - x$

degree: degree:

terms: terms:

Subtraction: _____
_____

Distribute the negative

$(6x + 2x^4) - (2x^4 + 3x)$ $\rightarrow$

Subtract the polynomials, make sure they are in standard form, then state the **degree** and number of **terms**

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

2. $(7x^2 + 2x) - (3x^2 - x)$

degree: degree:

terms: terms:

Addition: _____
_____

Add the polynomials, make sure they are in standard form, then state the **degree** and number of **terms**

1. $(5x + x^4) + (3x^4 + 4x)$

2. $(4m^4 - m^2) + (5m^2 + m^4)$

degree: degree:

terms: terms:

Multiplication: _____
_____

Foil Method:

$(2x + 3)(x - 2)$

Box Method:

	2x	+	3
x			
-2			

LIVEWORKSHEETS

Multiply the polynomials using any method, make sure they are in standard form, then state the **degree** and number of **terms**

1. $(5v - 1)(4v + 3)$

2. $(3x + 5)(3x - 3)$

degree:
terms:

degree:
terms: