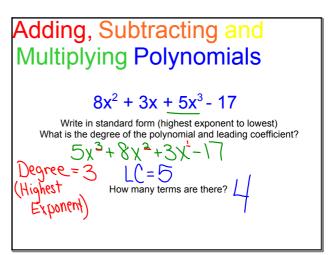
Algebra II Polynomials Add, Subtract, and Multiply



Nov 14-10:44 AM

Nov 12-11:03 AM

Example 1: Add and Subtract Polynomials. Tell degree and number of terms and leading coefficient.

A.
$$(2x^{2}+9-x)+(5x^{2}+4+7x+x^{2})$$
 D=3
 $3x^{9}+5x^{2}+6x+13$ $LC=3$
 $\# \text{trms}=4$
B. $(3-2x^{2})+(x^{2}+6x+x)$ D=2
 $-3x^{9}-5x+3$ $LC=-3$
 $\# \text{Terms}=3$

Example 2: Now, you try to add and subtract polynomials. Also tell the degree and number of terms and leading coef.

A.
$$(3x^3 + 7x - 1) + (4x^2 + 6 + 7x + x^3) + (3 + 2x^2)$$

$$4x^3 + 6x^3 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

$$x^3 + 7x - 1 + 14x + 2$$

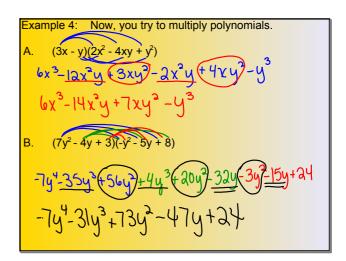
$$x^3 +$$

Nov 12-11:24 AM Nov 12-11:24 AM

Example 3: Multiplying Polynomials.

A.
$$(a-3)(2-5a+a^2)$$
 $8a-5a^2+a^3-b+15a-3a^2$
 $a^3-8a^2+17a-b$

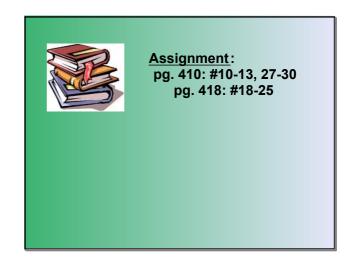
B. $(y^2-7y+5)(y^2-y-3)$
 $y^4-y^3-3y^3-7y^3+7y^3+21y+5y^2-5y-15$
 $y^4-8y^3+9y^3+16y-15$



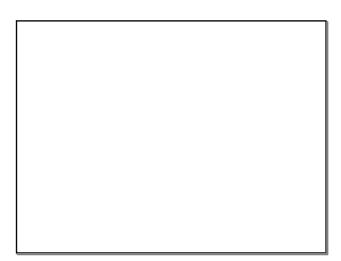
Nov 29-8:42 AM Nov 29-8:42 AM

Conclusion

- 1. What do we do to add polynomials?
- 2. How do we subtract polynomials?
- 3. What do we do to multiply polynomials?
- 4. How do you find the degree? Highest Exponent
- 5. How should all answers be written? Highest Expound to lower
- 6. What is a leading coefficient?
 # in front of Highest Exponent



Nov 14-10:45 AM Nov 12-11:57 AM



Nov 19-12:09 PM