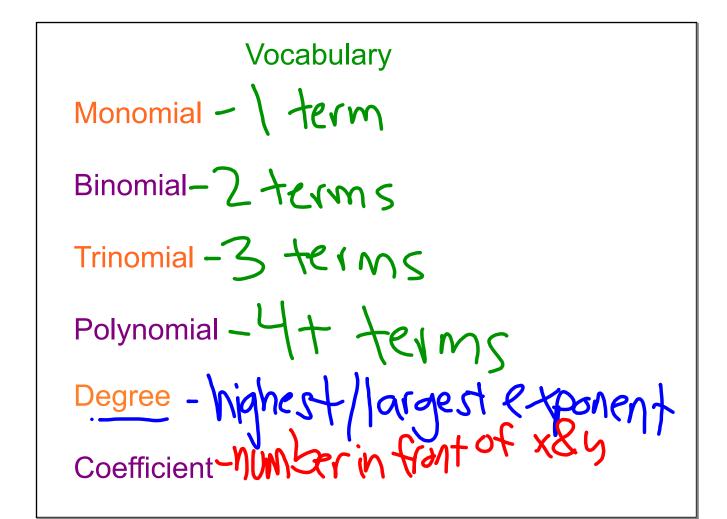
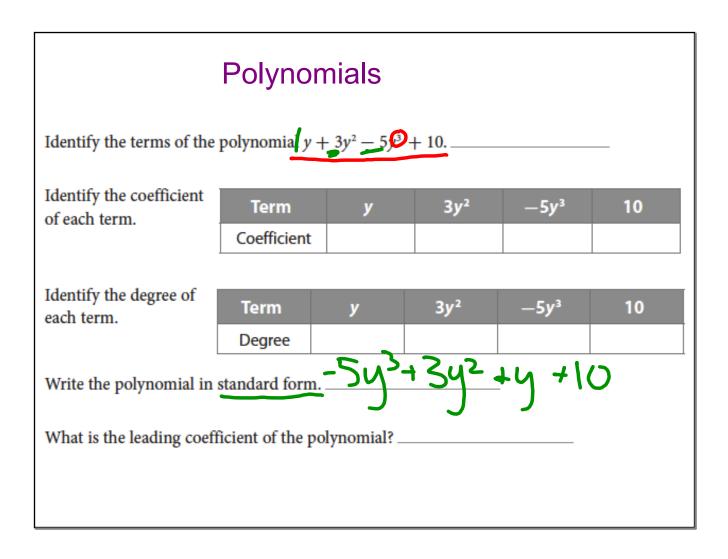
### 7-1 Operations with Polynomials

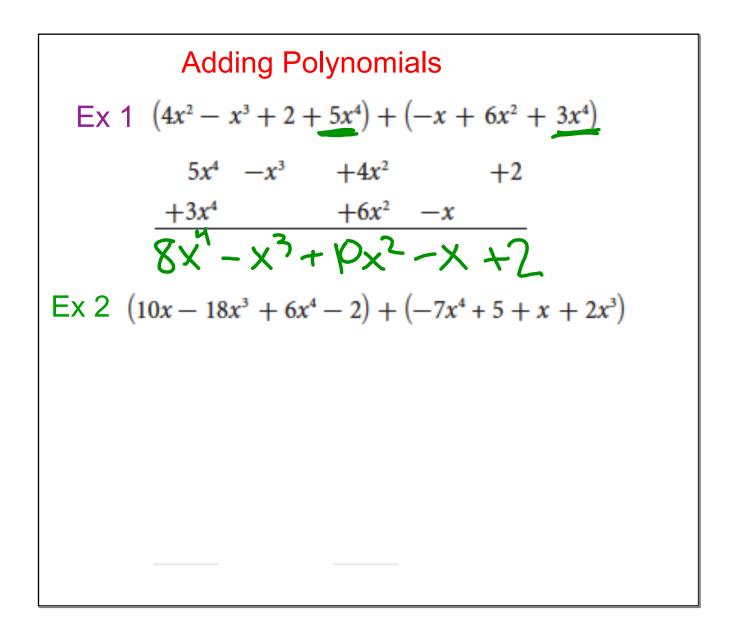
#### **Objectives:**

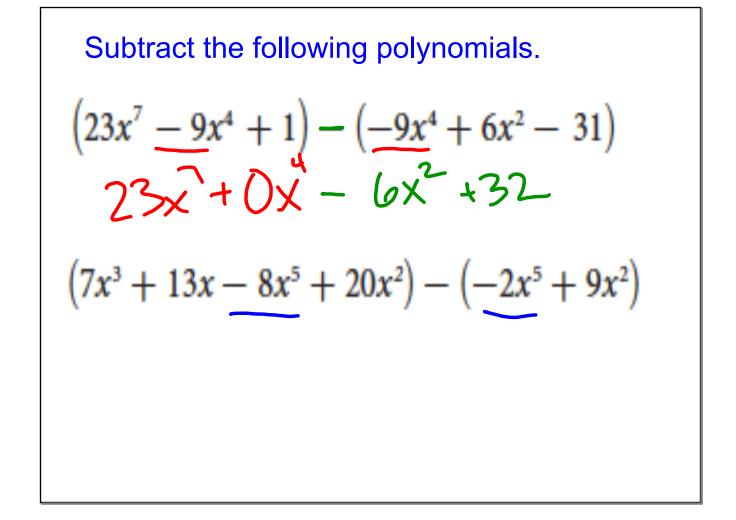
- I can identify the parts of a polynomial

- I can perform operations with polynomials including addition, subtraction, and multiplication









$$(17x^{4} + 8x^{2} - 9x^{7} + 4 - 2x^{3}) + (11x^{3} - 8x^{2} + 12)$$
$$(4x^{3} + 3x - x^{2} - 5) - (7 + 2x^{3} - 6x^{2})$$

 $-4x+2x^{2}$ (x + 2)Find the product by multiplying horizontally.  $x - 4x^{2} + 2x^{3} + 2 - 8x + 4x^{2}$  $(x-6)(3-8x-4x^2)$ 

## Multiplying with a table

# $(x^2+3x-5)(x^2-x+1)$

	<b>x</b> <sup>2</sup>	-X	1
<b>x</b> <sup>2</sup>			
+3x			
-5			

# It's all you! $(3+2x)(4-7x+5x^2)$

