Unit 6 Module B Notes Sections 18.4 – 18.7; 19.1 – 19.2

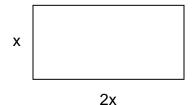
View the PowerPoint, Videos, or Textbook for Module 6B.

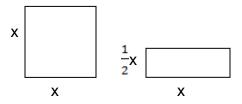
Vocabulary Fill in the blanks.

- 1. (Section 18.4) To find the additive inverse of a polynomial, change the _____ of each term or multiply by -1.
- 2. (Section 19.1) A ______ of a polynomial is an expression that names that polynomial as a product.
- 3. (Section 19.1) The largest factor that is common to each of several terms is called the
- 4. (Section 19.1) Certain polynomials with four terms can be factored using this method
- 5. (Section 19.2) A polynomial that cannot be factored further is said to be _____.

Problems Show ALL steps.

- 1. (Section 18.4) Find a polynomial for the sums of the
 - Perimeters and (hint: find the perimeter of each rectangle, add the perimeters, and simplify the polynomial)
 - b. Areas (hint: find the area of each rectangle, add the areas, and simplify the polynomial) of the rectangles.





1) P= _____ A= ____ 2) P= ____ A= ____ 3) P= ____ A= ____

Total Perimeter= _____ Total Area= _____

Name:	
Date:	

Instructor: _____

2. Section (18.5) Multiply. (-3x)(x-4)(-x+1)

3. (Section 18.6 and 18.7) Multiply using special product rules.

a.
$$(x-4)(x+4)$$

b.
$$(x+4)^2$$

4. (Section 19.1) Factor by grouping. $2x^3 - 6x^2 - x + 3$ Underline the common binomial factor when you factor by grouping. Also check your answer by multiplying the factors.

5. (Section 19.2) Factor. $18 + 7x - x^2$

Also, List the product of the factors and the sum of the factors. (hint: factor out -1 first)