

Name: _____

/10

Instructor: _____

Date: _____

Class Time: _____

Unit 6 Module C Notes Sections 19.3 - 19.9

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

Vocabulary *Fill in the blanks.*

- (Section 19.3) The following describes the five steps for the _____ method of factoring.
 - Factor out the largest common factor, if one _____.
 - Find _____ First terms whose product is _____
 - Find two _____ terms whose product is c.
 - Look for _____ and _____ products resulting from steps (b) and (c) for which the sum is bx.
 - Always _____ by _____.
- (Section 19.4) The _____ is also referred to as the grouping method.
- (Section 19.5) A trinomial that is the square of a binomial is called a _____ or a _____.
- (Section 19.8) A _____ is an equation equivalent to an equation of the type $ax^2 + bx + c = 0$, $a \neq 0$

Problems *Show ALL steps.*

- (Section 19.3) Factor using the FOIL method $8x^2 - 2x - 15$. Show the check.

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2. Section (19.4) Factor using the ac-method: $6x^2 + 13x - 5$. Show the check.

3. Factor. $4z^5 - 20z^4 + 25z^3$

4. (Section 19.6) Factor completely the difference of cubes. $m^3 - 125$.

5. (Section 19.9) Dimension of Picture. A rectangular picture is twice as long as it is wide. If the area of the picture is 288 in^2 , what are its dimensions?

Answer: The dimensions of the picture are _____ in long by _____ in wide.