

# MTH 28 LECTURE NOTES (Ojakian)

## Topic 4: Intro to Factoring

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### OUTLINE

References: 6.1

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1. What is factoring?

- (a) For numbers.
- (b) For algebraic expressions.

2. GCF of Monomials

- (a) For numbers GCF: Largest number that divides into all evenly.  
Examples ....
- (b) For algebraic expression: Largest monomial that divides into all evenly  
Examples ...

3. Factoring out monomial

**PROBLEM 1.** *Factor the following:*

- (a)  $x^2 + x^3$
- (b)  $22x^2y^2 - 18x^3y$
- (c)  $2a^2 + 7a^3b$