# MTH 28 LECTURE NOTES (Ojakian)

## Topic 8: Factoring - Putting it all together

**OUTLINE**
References: 6.4

1. <u>General Strategy</u>

    (a) First, pull out GCD.

    (b) Then look for difference of squares (2 terms).

    (c) Then look for trinomials to factor (3 terms).

    (d) Then look for fact by grouping (4 terms).

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

    (a) $12x^2y^4 - 27x^4y^2$

    (b) $10a^2b^2 - 70ab^2 - 180b^2$

    (c) *More Problems (Section 6.4):*
    *235, 247, 247 (with $x^4$ changed to $x^3$), 249, 263, 264.*