MTH 28.5 LECTURE NOTES (Ojakian)

Topic 21: 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.