

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**ADDITIONAL FACTORING PROBLEMS USING GROUPING**  
**ALGEBRA 2 HONORS HOMEWORK**

Factor each of the following completely. You will have to use grouping as a technique at some point.

1.  $x^3 + 7x^2 - 9x - 63$

2.  $8x^3 - 2x + 4x^2 - 1$

3.  $5x^3 - 10x^2 + 20x - 40$

4.  $x + 1 - x^3 - x^2$

5.  $-10x^3 - 2x^2 + 40x + 8$

6.  $3x^3 + 24x^2 + 6x + 48$