## LAGUARDIA COMMUNITY COLLEGE Department of Mathematics, Engineering, and Computer Sciences MAT 096 ELEMENTARY ALGEBRA / PILOT

## Lab # 7

1. Factor out the greatest common factor.

 $30 r^{2}s + 15 r s^{2}$ 

2. Factor by grouping

13x -11 + 39 ax -33 a

3. Factor by grouping

$$y^2 + 4y + 8y + 32$$

4. Factor

$$x^2 - 3x - 18$$

5. Factor

$$2x^2 + 9x + 9$$

6. Factor the following expression

 $4 x^2 - 9 y^2$ 

7. Factor the following:

$$81x^2 - 72x + 16$$

- 8. Factor completely :
  - a.  $12x^2 + 2x 2$
  - b.  $2a^2b + 18b^3$