## New Jersey City University Intermediate Algebra Peer Led Team Learning Workshop 5A Factoring (Basic Skill Factoring Problems)

## 1. Section 5.4 – Common Factor Method

Factor completely:  $24x^3y^4z^4 - 32x^6y^2z^3 + 64x^2y^3z^5$ 

## 2. Section 5.4 – Factoring by Grouping Method

(Note we usually use this method for a polynomial of even number of terms, in our course it means 4 terms)

Factor by Grouping:  $x^2y^2 + 5x^2y + 2y^3 + 10y^2 - 3y - 15$ 

3. Section 5.5 – Factoring Trinomials (Case 1:  $x^2 + bx + c$ , the coefficient of  $x^2$  is 1.)

Factor completely:  $x^6 + 12x^3 + 32$ 

4. Section 5.5 – Factoring Trinomials (Case 2:  $ax^2 + bx + c$ , the coefficient of  $x^2$  is not 1.)

Factor completely:  $24x^4 + 14x^2y - 3y^2$ 

PLTL IA WORKSHOP 5A