Check-Up:

① Given $(-3x^7+4y^3)^{16}$. What is the numerical coefficient for the term with the variable part $x^{35}y^{33}$?

$_{16}C_{11}(-3x^7)^5(4y^3)^{11}$

$4368x^{-243x}$

4199304

② Factor fully:

a) x^3+64 (b) $27x^6-1$ (c) $x^{12}-1$

$(x+4)(x^2-4x+16)$ $(3x^2-1)(9x^4+3x^2+1)$

(c) $(x^4-1)(x^8+x^4+1)$

$(x^2-1)(x^2+1)(x^8+x^4+1)$

$(x-1)(x+1)(x^2+1)(x^8+x^4+1)$

(c) $(x^6-1)(x^6+1)$

$(x^3-1)(x^4+x^2+1)(x^3+1)(x^4-x^2+1)$

$(x-1)(x+1)(x^4+x^2+1)(x^2+1)(x^4-x^2+1)$

Polynomials Review

- Factoring Techniques
- Dividing Polynomials
- Remainder Theorem
- Factor Theorem
- Sum and Difference of Cubes
- Solving Polynomial Equations
- Permutations and Combinations
- Binomial Theorem

Review-Polynomials.pdf

Pg. 153
#4, 5, 6, 7, 8, 10

Pg. 155
#6, 7, 8

Pg. 547
#16, 17

Pg. 548
#5, 12