

Algebra II

4-5 and 4-6
(Day 2)

More Factoring

Nov 7-9:42 AM

Sum of Cubes-

$$(a^3 + b^3) = (a + b)(a^2 - ab + b^2)$$

Difference of Cubes-

$$(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$$

Nov 7-9:43 AM

Factor.

$$*) x^3 + 64$$

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

$$(a^3 + b^3) = (\underline{a} + \underline{b})(a^2 - ab + b^2)$$

$$(x+4)(x^2-4x+16)$$

Nov 7-9:47 AM

Factor each polynomial. (pg 186)

$$35) a^6 + b^3$$

$$((a^2)^3 + b^3) = (a^2 + b)((a^2)^2 - a^2b + b^2)$$

$$(a^3 + b^3) = (a + b)(a^2 - ab + b^2)$$

$$(a^2 + b)(a^4 - a^2b + b^2)$$

Nov 7-9:52 AM

Assignment:

Pg. 186

17-20 all, 36

40-50 even

Pg. 191

36 - 44 even

Nov 7-9:55 AM