Special Binomials

Difference of Squares

- Multiply $(2x + 3)(2x - 3)$
- What happened to the middle term? Why?

Example $36x^2 - 25$

$(6x + 5)(6x - 5)$

Example $x^4 - 81$

$(x^2 + 9)(x^2 - 9)$

$1^2 = 1$	$7^2 = 49$
$2^2 = 4$	$8^2 = 64$
$3^2 = 9$	$9^2 = 81$
$4^2 = 16$	$10^2 = 100$
$5^2 = 25$	$11^2 = 121$
$6^2 = 36$	$12^2 = 144$

Assignment: pg 562 # 8-13, 21-26

Factoring $ax^2 + bx + c$

Example $2x^2 + 7x + 5$

- Write out factors of 1st and 3rd term.

1, 2 5, 1

GUESS AND CHECK

$(x + 1)(2x + 5)$

Assignment: pg 552 #1-6 (Review pg 557 # 12-26)