

Multiplying Binomials (FOIL)

Multiplying Polynomials (Box Method)

Example #1

$$(x+4)(x-6)$$

FOIL

- First terms
- Outer terms
- Inner terms
- Last terms

$$= x^2 - 6x + 4x - 24$$

$$= x^2 - 2x - 24$$

Box Method:

	x	-6
x	x^2	$-6x$
4	$4x$	-24

$$= x^2 - 2x - 24$$

Example #2

$$(2x+3)(x^2-6x+5)$$

	x^2	$-6x$	5
2x	$2x^3$	$-12x^2$	$10x$
3	$3x^2$	$-18x$	15

$$= 2x^3 - 9x^2 - 8x + 15$$

Assignment:

pg 497 #26-60 evens