Algebra Notes - 9.3 Multiplying Binomials

Reminder – A binomial is an expression with two terms

Ex) x2 + 4 y – 8

There are three methods you can use to multiply two binomials:

1. FOIL method – *f*irst, *o*utside, *i*nside, *l*ast
2. Vertical method
3. Box method

Ex #1) (x – 4)(x + 6) FOIL method

First terms: x \* x = x2

Outside terms: x \* 6 = 6x

Inside terms: -4 \* x = -4x

Last terms: -4 \* 6 = -24

Combine like terms to get x2 + 2x – 24

Ex #2) (x + 7)(x – 3) Vertical method

x + 7

x – 3

Ex #3) (x + 2)(x + 5) Box method

X +2

X xxxx

+5