MTH 28.5 LECTURE NOTES (Ojakian) Topic 16: Multiplying Polynomials

OUTLINE References: 5.3

1. Multiplying Monomials

Recall examples already done.

- 2. Distributivity
 - (a) A(B+C) = AB + AC
 - (b) (B+C)A = AB + AC
- 3. <u>Binomial times Binomial</u>
 - (a) Use Repeated Distributivity
 - (b) Use FOIL accronym
 - (c) Vertical Method
 - (d) Be careful with squaring!
 - (e) Multiplying Conjugate Pairs yields Difference of Squares: $(A + B)(A B) = \dots$
- 4. Polynomial times Polynomial

In general NOT FOIL, but Vertical Method is good.