## MTH 28.5 LECTURE NOTES (Ojakian)

## Topic 16: Multiplying Polynomials

## OUTLINE

References: 5.3

## 1. Multiplying Monomials

Recall examples already done.
2. Distributivity
(a) $A(B+C)=A B+A C$
(b) $(B+C) A=A B+A C$
3. Binomial times Binomial
(a) Use Repeated Distributivity
(b) Use FOIL accronym
(c) Vertical Method
(d) Be careful with squaring!
(e) Multiplying Conjugate Pairs yields Difference of Squares: $(A+B)(A-B)=\ldots$
4. Polynomial times Polynomial

In general NOT FOIL, but Vertical Method is good.

