

# Boolean Algebra Proofs

$$1. AB + \bar{A}\bar{B} = A$$

$$A(\cancel{B+B}) = A$$

$$2. A + AB = A$$

$$A(1+B) = A(1)$$
$$= A$$

(distribution)

$$3. A + \bar{A}B = (\cancel{A+A})(A+B)$$
$$= A+B$$