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Assignment

Prove that

$$11) A + \bar{A}B = A + B$$

$$A + \bar{A}B = A(1+B) + \bar{A}B$$

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

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

$$= A + B$$

$$\text{So } A + \bar{A}B = A + B$$

$$12) (A+B)(A+C) = (A+BC)$$

$$(A+B)(A+C) = AA + AC + BA + BC$$

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

$$= A + BC$$

So

$$(A+B)(A+C) = A + BC$$