

Prove that the following expressions are equivalent.

a) $B'(A + B) = AB'$

$$AB' + \cancel{B'B} = AB'$$

$$\underline{AB' = AB'}$$

b) $A'B' + AB' = B'$

$$\cancel{A'B'} + \cancel{AB'} = B'$$

$$B' + B' = B'$$

$$\underline{B' = B'}$$

c) $B' + AB' = (A + B')(A' + B')$

$$\cancel{B} + AB' = \cancel{AB'} + \cancel{AB'} + B'$$

$$\underline{AB' = B'} \quad \text{Not equal}$$