

a)

$$AB + A''C'D' + B''C'D' = AB + C'D'$$

$$ab + a'b'c' = ab + b'c'$$

$$a'b' + a'b' = a'b'$$

$$(AB + A''C'D') + B''C'D' =$$

$$AB + C'D' + B''C'D' =$$

$$(AB + B''C'D') + C'D' =$$

$$AB + C'D' + C'D' =$$

$$AB + C'D' = AB + C'D'$$

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$$A'B'C'D' + D = (A+B+C+D)'$$

$$(A+B+C+D)' + D \neq (A+B+C+D)'$$

} FALSE

c)

$$CFG + CDE' + EFG + DFG = DFG + EFG + C(CD + E)'$$

$$CDE' + DFG = (CDE' + D) \cdot (CDE' + FG)$$

$$CDE'D = CE' + 0$$

$$DFG + EFG + C(CD + E)' =$$

$$CDE' + EFG + DFG =$$

$$(CDE' + D) \cdot (CDE' + FG) + EFG =$$

$$(CE' + D)(CDE' + FG) + EFG =$$

$$(CE'DE' + CE'FG + DCE' + DFG) + EFG =$$

$$(CED + CE'FG + DCE' + DFG + EFG) =$$

$$CED + CE'FG + DFG + EFG =$$

$$CE'FG + EFG + CED + DFG =$$

$$FG(CE' + E) + DFG + CED =$$

$$FG(C + E) + DFG + CED =$$

$$CFG + EFG + CED + DFG =$$

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$$\boxed{CFG + CDE' + EFG + DFG}$$