Problem 2. (10 points) Given the following two algebraic functions:

F(A,B,C)=AB+A'C

G(A,B,C)=(A+B)(A'+C)

(a). (3 points) Find the maxterm expansions (in M-notation) for **F** and **G**, respectively.

(b) (3 points) Find the maxterm expansion (in M-notation) for **F+G'**.

(c) (4 points) Given a 3-to-8 decoder with **inverted outputs**, use this decoder and an AND gate to implement **F+G'**.