Logic Design - Homework 3

- (1) Draw the logic diagram for the following Boolean expressions:
- (a) XYZ' + XY' + X'Z
- (b) X + X'(X'+Y) + (Y'+Z)
- **(2)** Prove the identity of each of the following Boolean equations using algebraic manipulation.
- (a) X'Y' + X'Y + XY = X'+Y
- (b) A'B + B'C' + AB + B'C = 1
- (c) Y + X'Z + XY' = X + Y + Z