7447 BCD - Seven segment Display Decoder Assignment

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I. ABSTRACT

Given the logic equation $[x + z\bar{Y} + (\bar{Z} + X\bar{Y})]\bar{X} + \bar{Z}(X + Y) = 1$. and X = 1, the equation is analyzed to determine the relationship between Y and Z. The correct relationship is derived by simplifying the equation and applying basic logic principles.