CENG 290 Digital Design 1 Midterm #1 Sample

1. Consider the following Boolean function: $F(A, B, C, D, E) = \Sigma (0,1,2,8,10,11,16,17,22,23,28,29)$ and $d(A, B, C, D, E) = \Sigma (14,15,24,25)$

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a) Use the 1's in the map to find the Boolean function and implement it using 2-input NAND gates. B) Use the 0's in the map to find the Boolean function and implement it using 2-input NOR gates. For each part draw the logic.