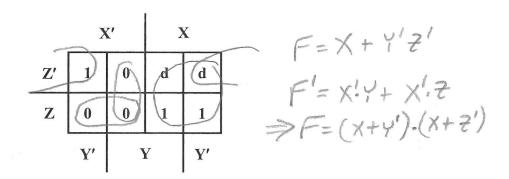
Practice Quiz 5

Closed Book and Notes - No Calculators Allowed

The following K-map applies to the questions on this quiz:



1. The cost of a minimal sum of products realization of this function (assuming both true and complemented variables are available) would be:

(A) 5



Hinputs + 2 gates

2. The cost of a minimal product of sums realization of this function (assuming both true and complemented variables are available) would be:

(A) 5

(B) 6

(C) 7 (D) 8

6 inputs + 3 gates

Assuming the availability of only true input variables, the fewest number of 2-input NAND gates that are needed to realize this function is:

(B) 6

(C) 7

(D) 8

(E) 9

4. Assuming the availability of only true input variables, the fewest number of 2-input NOR gates that are needed to realize this function is:

(B) 6

(C) 7

(D) 8

(E) 9

5. Assuming the availability of only true input variables, the fewest number of 2-input opendrain NAND gates that are needed to realize this function is:

(A) 1

plus 2 pull-up resistors

