

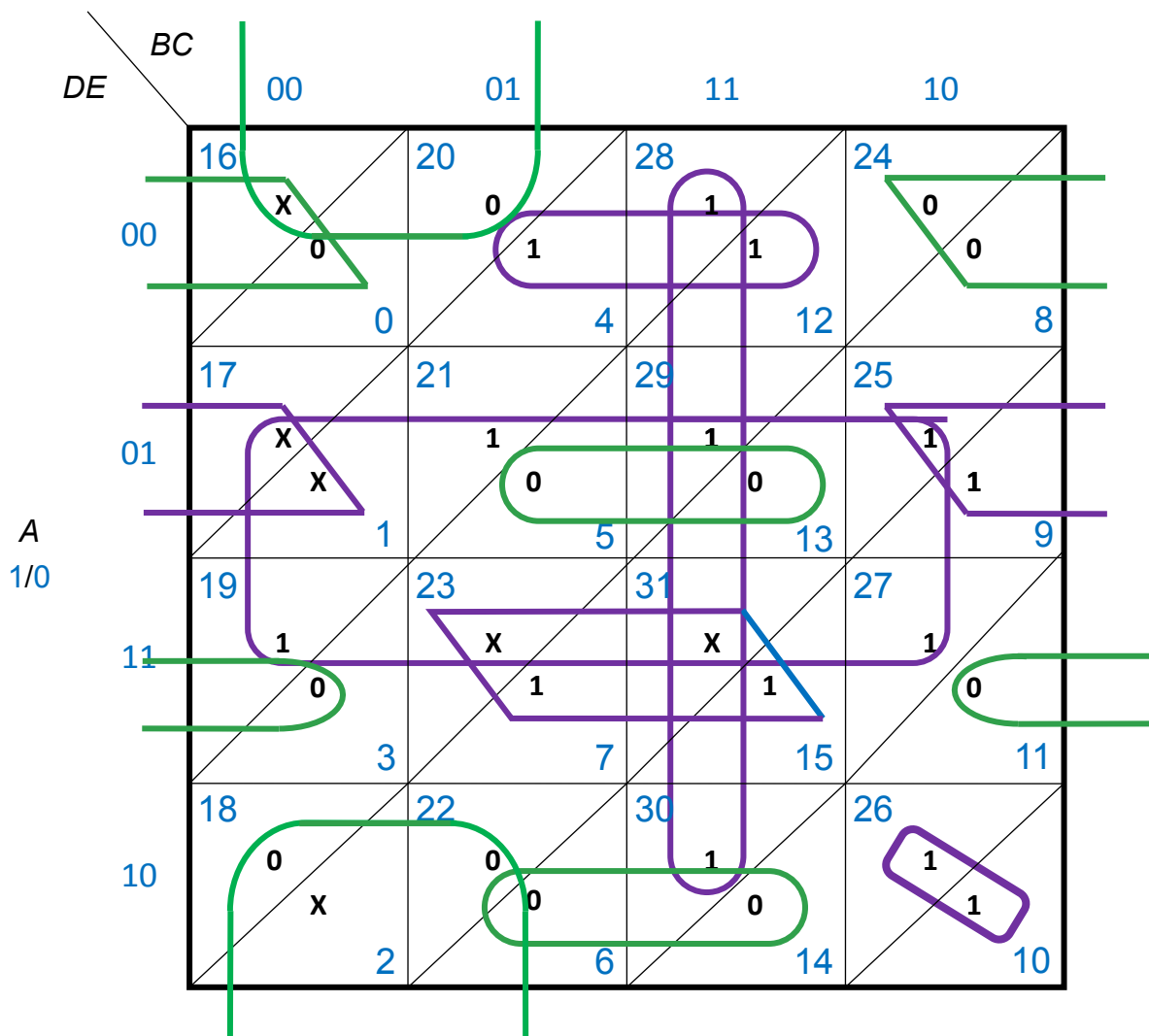
Quiz # 5

Name: _____ ID: _____

- Solve the problems below by using the given 5-variable Karnaugh map:

- (a) (40%) Find the minimum product of sums.
- (b) (60%) Find the minimum sum of products expression and underline essential prime implicants in your answer.

Ans:



$$(a) f = (A' + B + E)(C + D + E)(A + C' + D + E')(A + C + D' + E')(A + C' + D' + E)$$

$$(b) f = \underline{AE} + ABC + \underline{CDE} + \underline{C'D'E} + \underline{A'CD'E'} + BC'DE'$$