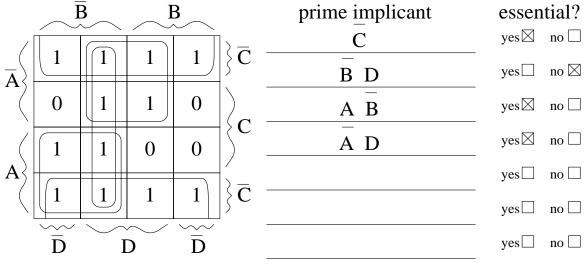
Simplification with Karnaugh Maps

Part A For the Karnaugh map below, circle the prime implicants. Then list each product term derived from the map indicating which are essential. You won't necessary need all lines.



Part B Write the simplified sun of products expression for this Karnaugh map.

$$F_{(A,B,C,D)} = \overline{C} + A \overline{B} + \overline{A} D$$

Part C Write the simplified product of sums expression for this Karnaugh map.

$$F_{(A,B,C,D)} = (\overline{A} + \overline{B} + \overline{C})(A + \overline{C} + D)$$