

$$Q \geq \frac{1}{2}$$

A B C D (ABD)C (ABD)C +B
$$\overline{A}B+\overline{CD}$$
 F

1 1 0 1 0 1 1 0

1 1 1 0 1 0 1

F = $\overline{A}B$ c D + $\overline{A}B$ c D + $\overline{A}B$ c D

R- Map

B

 $F = ACD + \overline{B}CD + \overline{AB}C$

$$F = \overline{ABCD} + \overline{CDCA+B}) + \overline{ABCC+D}) + \overline{ABCD}$$

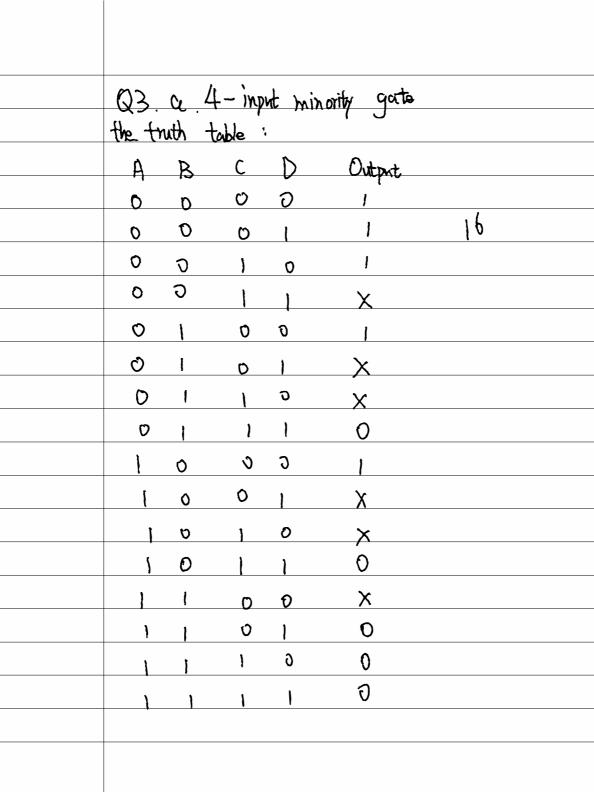
$$= \overline{ABCD} + \overline{ACD} + \overline{BCD} + \overline{ABC} + \overline{ABD} + \overline{ABCD}$$

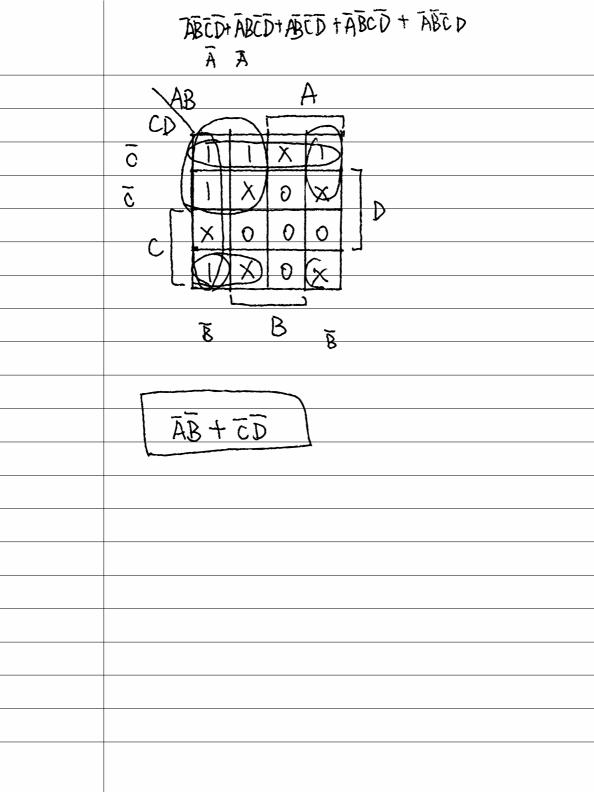
$$CD$$

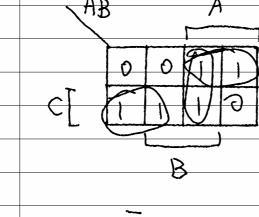
$$CD$$

$$C$$

$$F = \overline{A}D + A\overline{B}\overline{C} + A\overline{B}C\overline{D}$$







$$F = \overline{A}C + AB + A\overline{C}$$

b).
$$F = B (\overline{C} + D) + D(A + B) + \overline{C}D (\overline{A} + \overline{B}) + AB\overline{C}D$$

$$= B\overline{C} + BD + DA + DB + \overline{A}B\overline{C}D + AB\overline{D}$$

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$$F = \overline{CD} + B\overline{C} + BD + AD + AB$$

