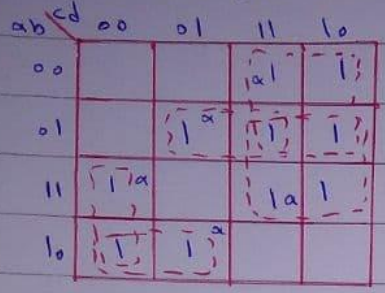
۹۹۴۶۳۱۳۲ امین خالقی

سوال ۱ ـ ی الف)

$f = \Sigma m(۲,۳,۵,۷,۸,۱۰,۱۱,۱۲,۱۳) + d(۹)$

-4 for missed PIs



+3

PI => $\bar{a}c, \bar{a}bd, bc, a\bar{c}\bar{d}, a\bar{b}\bar{c}$

EPI => $\bar{a}c, \bar{a}bd, bc, a\bar{c}\bar{d}, a\bar{b}\bar{c}$

-2

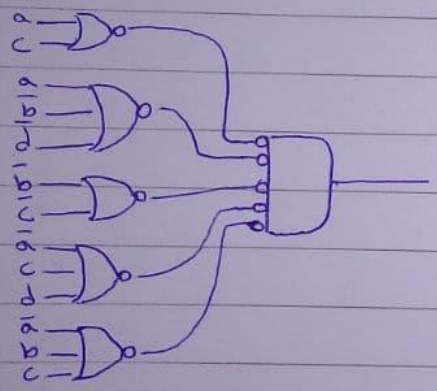
+0.5

$f = \bar{a}c + \bar{a}bd + bc + a\bar{c}\bar{d} + a\bar{b}\bar{c}$

-2.5

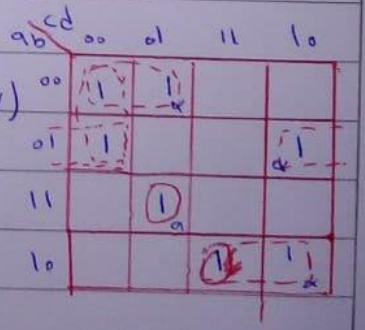
ب)

NOR => $f = (\bar{a}+c)(a+\bar{b}+\bar{d})(\bar{b}+\bar{c})(\bar{a}+c+d)(\bar{a}+b+c)$



-5

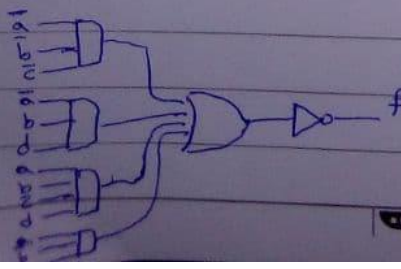
AOI => $\bar{f} = \Sigma m(۰,۱,۴,۶,۹,۱۴,۱۵) + d(۹)$



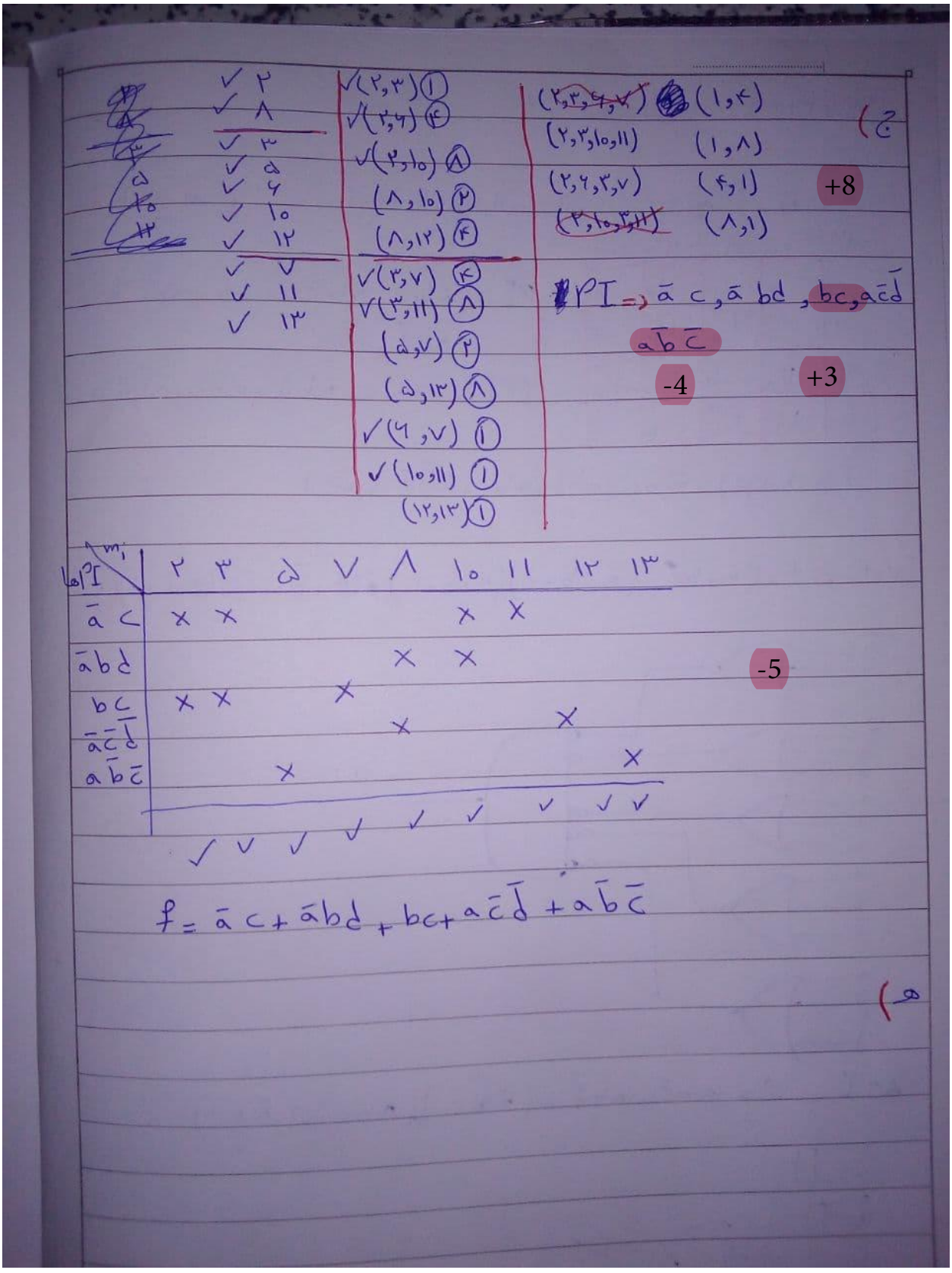
PI => $\bar{a}\bar{c}\bar{d}, \bar{a}\bar{b}\bar{c}, ab\bar{c}\bar{d}, \bar{a}b\bar{d}, a\bar{b}c$

EPI => $\bar{a}\bar{b}\bar{c}, \bar{a}b\bar{d}, ab\bar{c}\bar{d}, a\bar{b}c$

$\bar{f} = \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{d} + ab\bar{c}\bar{d} + a\bar{b}c$



-5


PI =: ā c , ā bd , bc , ac̄d̄
ab̄c̄
-4
+3
+8
-5
f = ā c + ābd + bc + ac̄d̄ + ab̄c̄