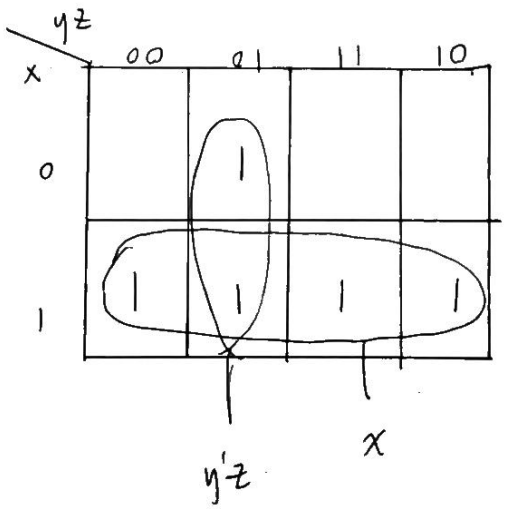
2 $F(x, y, z) = xy' + y'z + xz + xyz'$

truth table

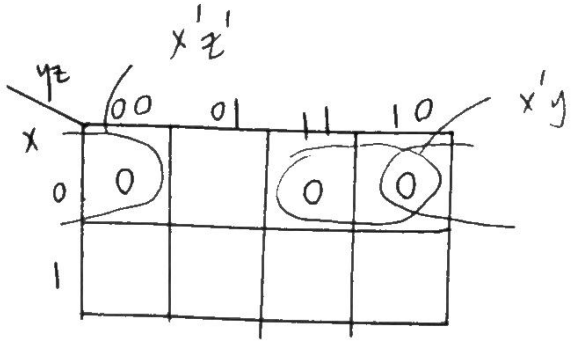
x	y	z	F
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

k map.



2 (a) $F = x + y'z$

(b)



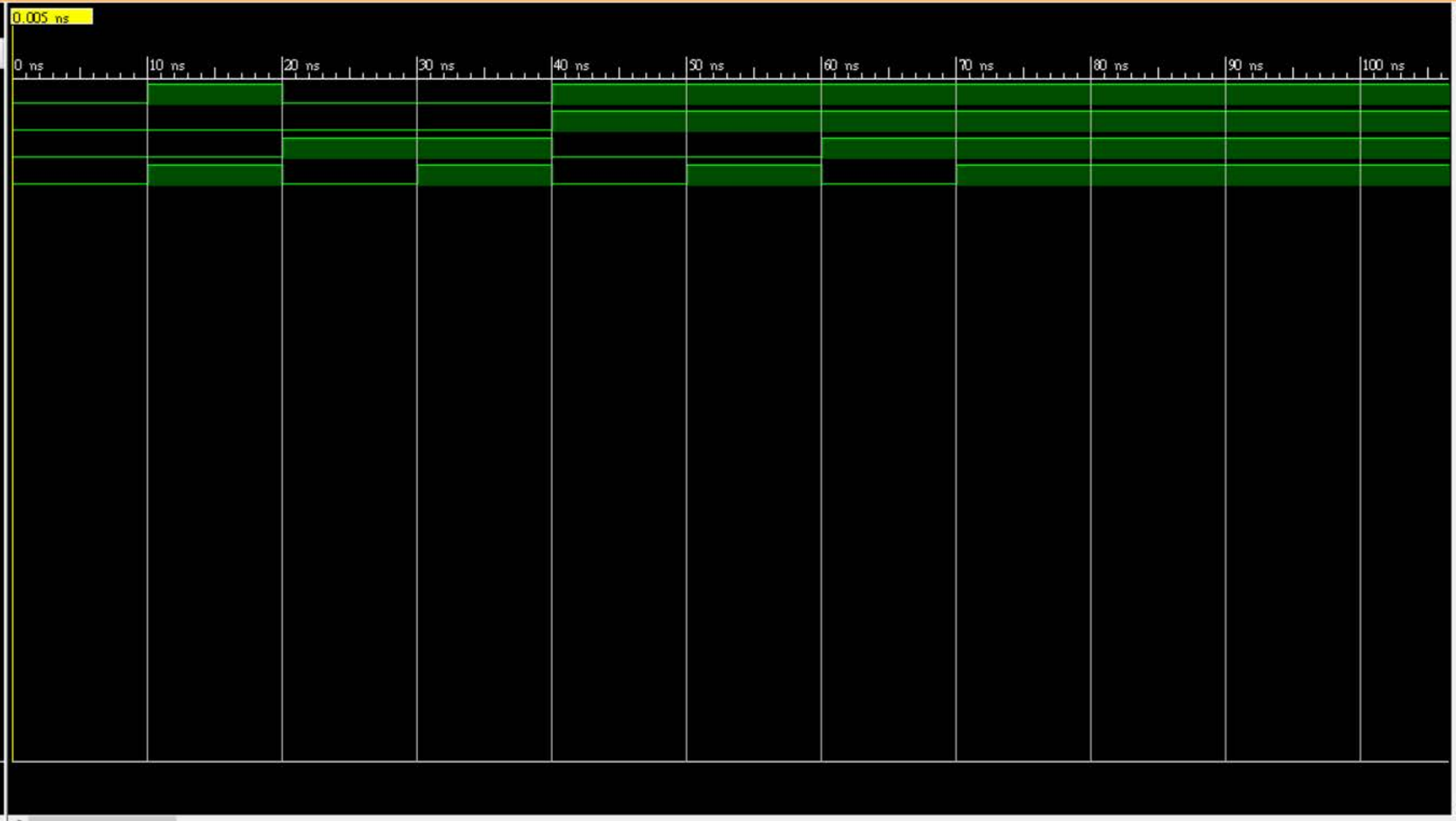
$F' = x'z' + x'y$

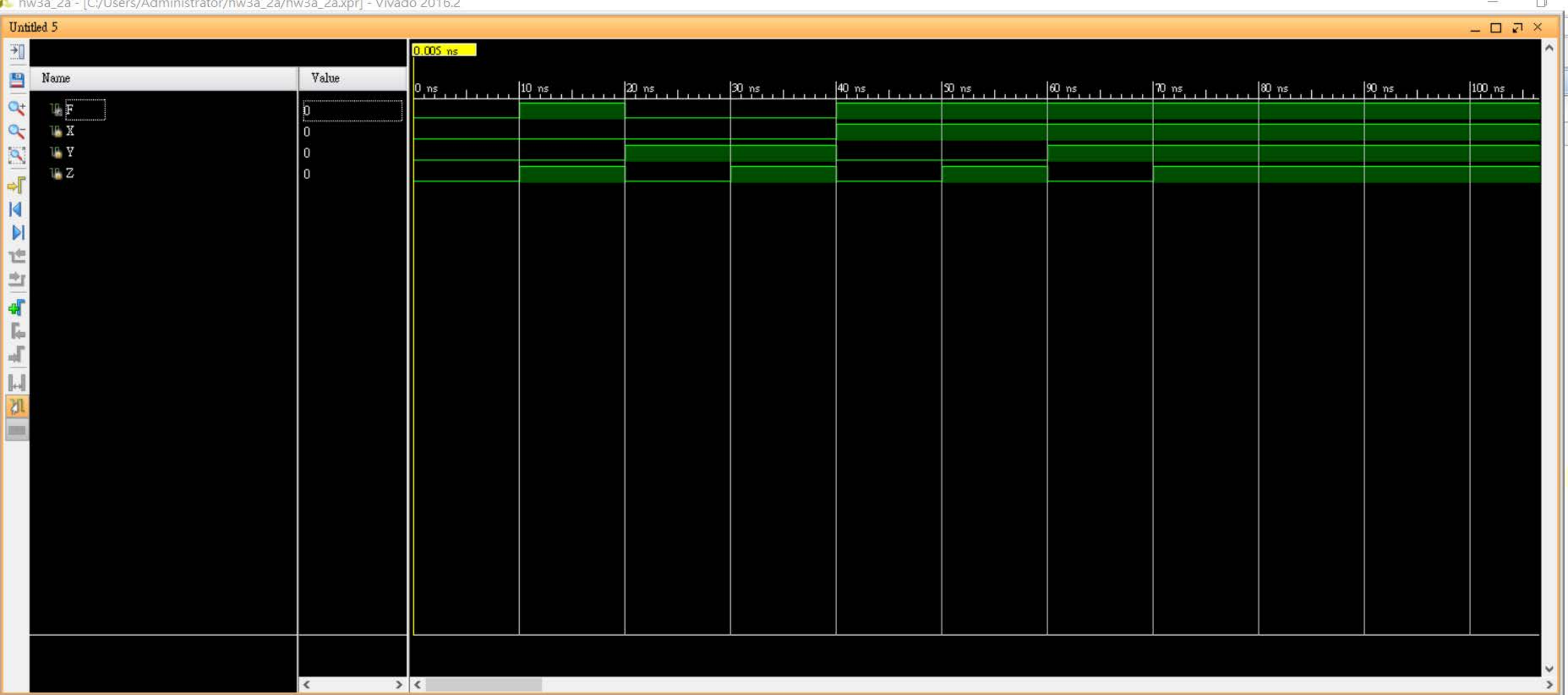
$F = (F')' = (x'z' + x'y)'$

$= (x + z)(x + y')$

Untitled 6

Name	Value
F	0
X	0
Y	0
Z	0




hw3a_2a - [C:/Users/Administrator/hw3a_2a/hw3a_2a.xpr] - Vivado 2016.2
Untitled 5
Name
Value
F
X
Y
Z
0
0
0
0
0.005 ns
0 ns
10 ns
20 ns
30 ns
40 ns
50 ns
60 ns
70 ns
80 ns
90 ns
100 ns