

ENGR-354  
HW # 7 - Due Friday 10/2/20

Loop out SOP minimum cover for the entered variable maps shown below and write out their function.

1)

		ab			
		00	01	11	10
c	0	$\phi + \bar{b}$	0	D	$\phi$
	1	0	1	$\phi D$	$\bar{b}$

f =

2)

		ab			
		00	01	11	10
c	0	0	1	D	$\phi \bar{b}$
	1	1	$\phi + D$	$\phi D + \bar{b}$	$\phi$

f =

3)

		ab			
		00	01	11	10
c	0	1	$\bar{X} + Y$	XY	Z
	1	1	$\bar{X} Y$	0	Z

f =