

Homework 5 Solutions

13.

a.

	a b	00	01	11	10
c	00		1	1	1
	0	1	1		
	1	1			

b.

w x	00	01	11	10
y z	00		X	X
	01	1	1	
	11	1	1	
	10		1	X

c.

	w x	00	01	11	10
y z	00	1			
	01		1		1
	11	1	1		
	10				

d.

w x	00	01	11	10
y z	00	1		
	01	1	1	1
	11	1	1	
	10	1	1	1

Handwritten annotations:

- Blue circle: bcd'
- Red circle: $ab'd$
- Green circle: $ab'cd'$
- Blue line: $a'c$
- Blue line: $a'b'd$

20. j.

One possible solution

	a b	00	01	11	10
c d	00	1			
	01	1	1		
	11				
	10	1	1		

$$a'bc' + bcd' + abd$$

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Another possible solution to 20 j.

