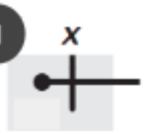
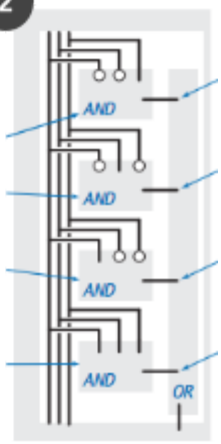
For each circuit below, find its matching boolean algebraic expression on the second page, then find its matching description on the third page.

0

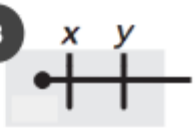
1



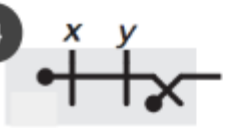
2



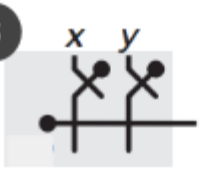
3



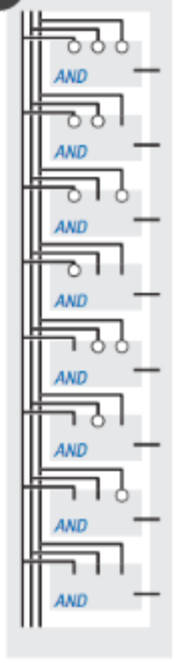
4



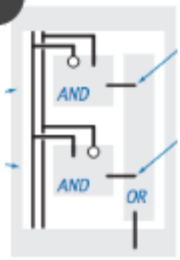
5



6

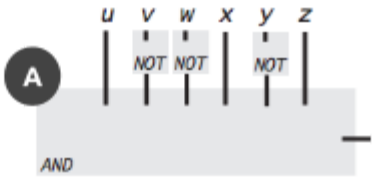


7

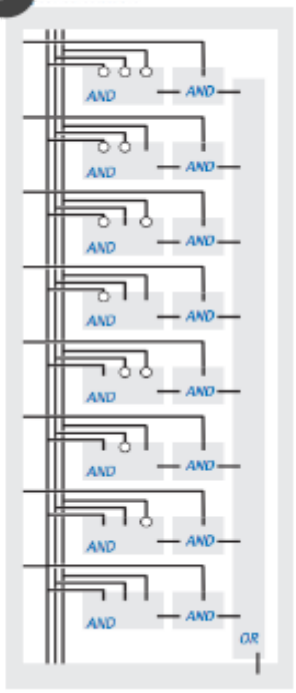


8

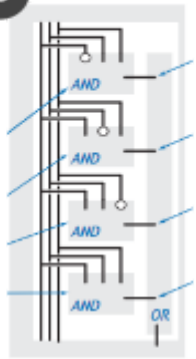
A



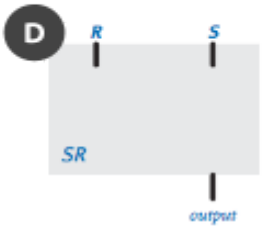
9



B



D



C

0 (u + v + w + x + y + z)'

1 x'

3 3-bit value selects one of eight input wires

2 x'yz + xy'z + xyz' + xyz

6 can be used to store one bit of memory

4 (x + y)'

8 3-bit value turns on one of eight output wires

5 uvwxyz

9 x'y + xy'

A uv'w'xy'z

B u + v + w + x + y + z

7 x + y

D xy

C x'y'z + x'yz' + xy'z' + xyz

0 6-INPUT AND

1 NOR

3 XOR

2 NOT

6 OR

8 MULTIPLEXER

4 MAJ

5 DECODER

9 6-INPUT OR

A AND

7 6-INPUT GENERAL BOOLEAN FUNCTION

B ODD

D FLIP-FLOP

C 6-INPUT NOR

Write the matching numbers/letters in the empty cells below.

PAGE 1 **CIRCUIT**	PAGE 2 **BOOLEAN ALG.**	PAGE 3 **DESCRIPTION**
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		