

(a) The four possible cases

	Carry	Sum
x y	c	S
0 0	0	0
0 1	0	1
1 0	0	1
1 1	1	0

(b) Truth table

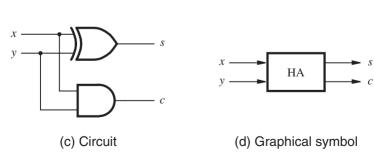


Figure 5.2 Half-adder.