

2.50 Determine whether the Boolean function  $G = a'b'c + ab'c + abc' + abc$  is equivalent to the function represented by the circuit in Figure 2.66.

The circuit in Figure 2.66 represents the equation  $H = ab + b'c$ . In canonical sum-of-minterms form,  $H = abc' + abc + a'b'c + ab'c$ , which is equivalent to  $G$ .

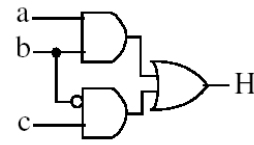


Figure 2.66: Combinational circuit  $H$ .