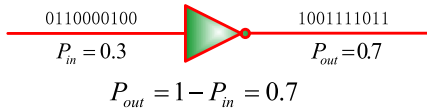
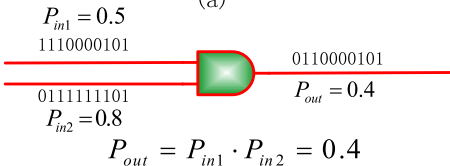


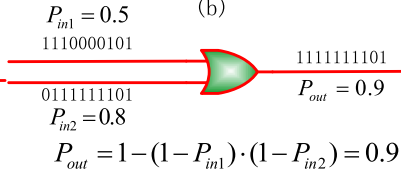
(a)



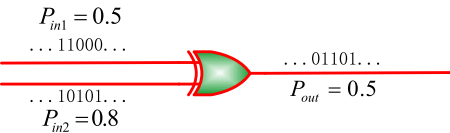
(b)



(c)

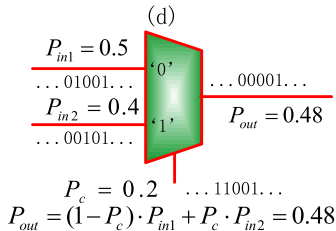


(d)



$$P_{out} = (1 - P_{in1}) \cdot P_{in2} + P_{in1} \cdot (1 - P_{in2}) = 0.5$$

(e)



(f)