

Gate	P_Y
AND2	$P_A P_B$
OR2	$1 - \bar{P}_A \bar{P}_B$
NAND2	$1 - P_A P_B$
NOR2	$\bar{P}_A \bar{P}_B$
XOR2	$P_A \bar{P}_B + \bar{P}_A P_B$