

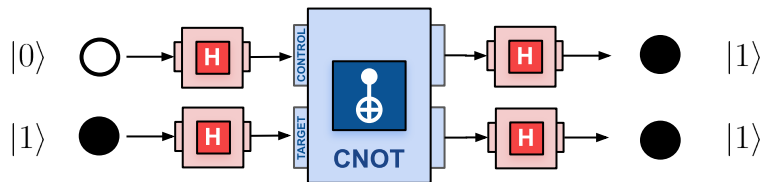
PHASE KICKBACK

(True / False) The control of a C-NOT never changes color (i.e., probability of measuring 0 or 1).

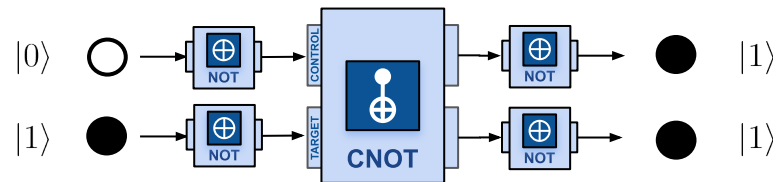
(True / False) The control of a C-NOT never changes any aspect of state (color or phase).

Which is the phase kickback circuit?

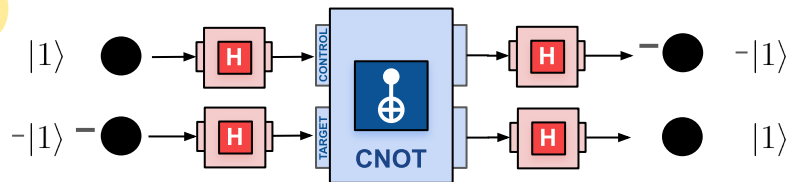
A.



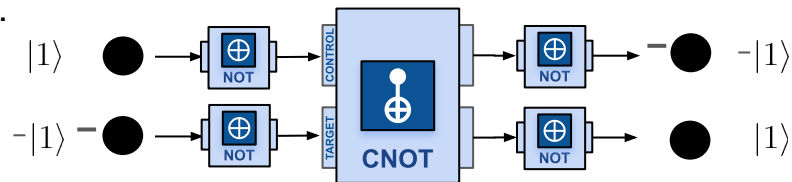
C.



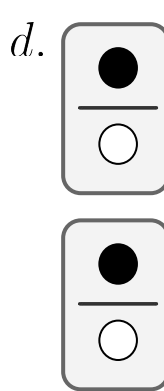
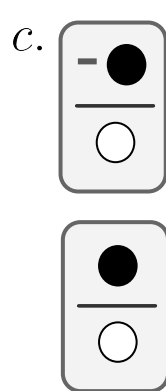
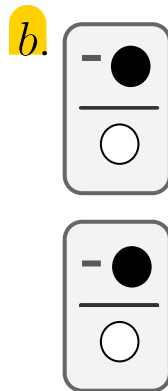
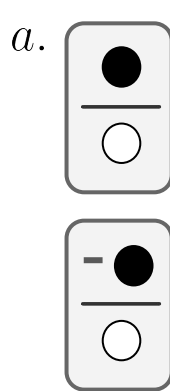
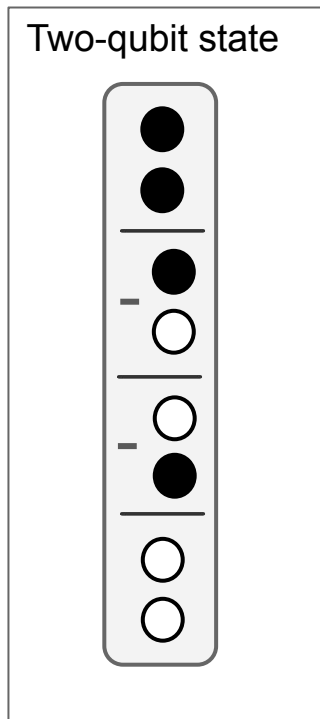
B.



D.



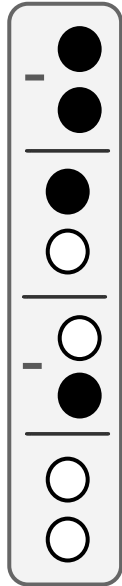
This two-qubit state is the same as which two individual qubits?



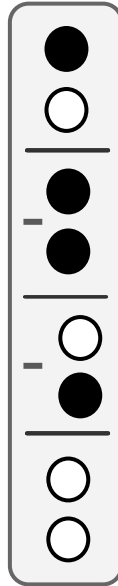
e. cannot
be split

Which of the following state(s) is the same as this one?

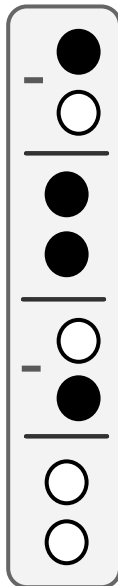
Two-qubit state



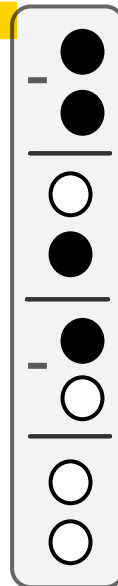
a.



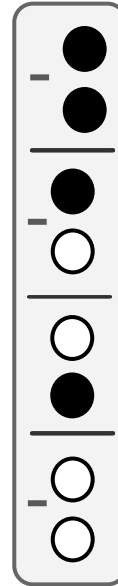
b.



c.

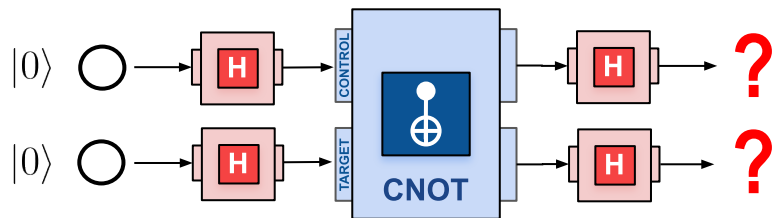


d.



e. None of these represent the same state

What is the output of the following circuit?



- | | | | | | |
|----|----|----|----|----|----|
| A. | B. | C. | D. | E. | F. |
| ● | ○ | ● | ○ | -● | ● |
| ● | ● | ○ | ○ | ○ | -● |