Last time CNOT or CX

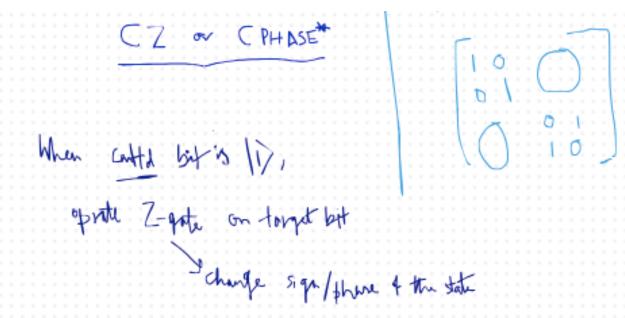
(x(0,1)00

101)

CZ ~ CPHASE*

When cattle bit is (1), oprate Z-gate on torget bit

I change sign/share 4 the state



CZ(OI) Rend state het 100 | 100) Right to Lut

$$\begin{array}{c}
(\overline{z}(0,1) = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & -1 \end{bmatrix} & \overline{q}, \quad \overline{q} \\
= CZ(1,0) & = \overline{q}
\end{array}$$

 $\frac{\text{SWOP}}{\text{SWO}} = \frac{1017 \rightarrow 116}{1017 \rightarrow 116}$

3-qubit gatur

1) Tofolli gete

2 Fredhin Mith

- Snort