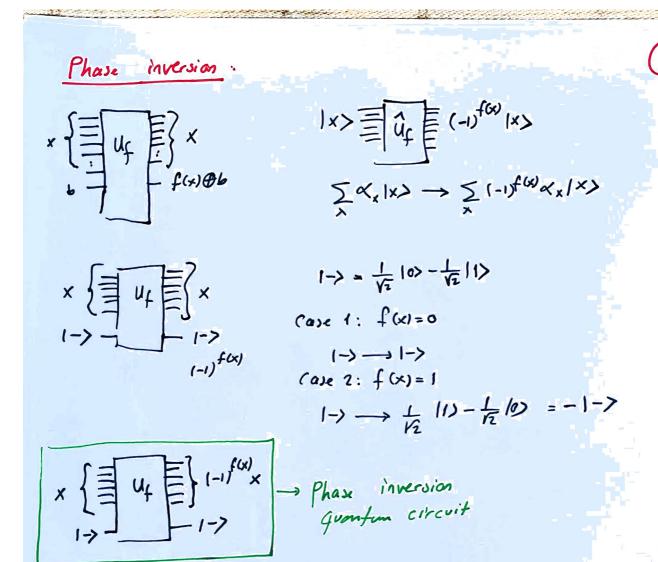


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Reflection about mean:

$$\sum_{X} x_{X} | x \rangle \rightarrow \sum_{X} (2M - x_{X}) | x \rangle$$

$$x = \begin{cases}
1 & \text{if } x = 0 & \text{o...} \\
1 & \text{otherwise}
\end{cases}$$
Reflection about the mean is the same as doing reflection about $|u\rangle = \frac{1}{|W|} \sum_{X} |x\rangle$

$$H^{\text{on}} \begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 \end{pmatrix} - \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} + \begin{pmatrix} 1 &$$

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