



$$m \rightarrow \text{Kang} \rightarrow m \rightarrow \text{Kang} \rightarrow m \rightarrow \text{Kang}$$

A hand-drawn circle on a grid of graph paper. The circle is centered at the intersection of the third vertical line from the left and the third horizontal line from the bottom. It passes through the points (2, 2), (4, 2), (2, 4), and (4, 4) in grid coordinates.



$$Q = X \quad Q^T = (Q^T X)$$

$$C =$$

$$C = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \quad \text{XOR} = 1 \quad \text{output} = 0, 1$$

$$- \frac{1}{2} \ln \frac{1}{2} = \frac{1}{2} \ln 2$$