Rice's Theorem
f $L=\{\langle m\rangle$ |where $m$ has property $P\}$
$P$ is nontrivial
$P$ is a property of the language of $M$
then $L$ is undecidable.

$$
\begin{aligned}
& \frac{A \leq_{p} B}{L B A} \\
& 0,1,00,01,10,11 \\
& \frac{0}{1}
\end{aligned}
$$

Mapping Reducibility

$$
w \underset{\text { convert }}{\longrightarrow} f(w)
$$

Subsetsum


Suppose $S$ has a subset $B \cdot w$ sum $k$.

$$
\begin{aligned}
& A=S \underset{x+2 k}{u\{2 k\}} \cup \underset{2 x}{\{x\}}
\end{aligned}
$$

