

Fact: If A < m B and B is decidable, then B is decidable.

Fact: If A < m B and A is undecidable, then B is undecidable.

Fact: If $A \leq_m B$ and B is Turing-Recognizable then 4 is turing-Recognizable.

Fact: If A Sm B and A is not Turing-Recognizable then B is not turing recognizable.

M O Simulate M on w

and rejects, then hat

else (M accepts w)

3) Simulate Me* on x and accept iff Me* accepts $L(\hat{m}) = \phi$ if M does not accept W $L(\hat{m}) = Z^*$ if

Two other-words:

Em we Hom (=> <m>> < L

f(<m, v>) = <m>, so f is a

L is undecidable.

Reduction.

Reduction.