

Name: _____

Math 160A - Winter 2002 - Quiz #2

Instructor: Sam Buss - UCSD - February 6, 2002

Prove the following theorem. Use your best judgement on how much detail to include. State clearly what steps you are taking in the proof.

Theorem. Suppose that $\Sigma_1 \models \Sigma_2$. Then, for every formula ϕ , if $\Sigma_2 \models \phi$, then $\Sigma_1 \models \phi$.