Foundations of Mathematics
Quiz 8

Name:_____

You have 10 minutes to complete this quiz. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be **complete**, **legible** and **correct**. When appropriate, show your work and give adequate explanations.

1. State the Deduction Theorem.

   $\Gamma \cup \{\alpha\} \vdash \beta$ implies $\Gamma \vdash (\alpha \to \beta)$.

2. Define
   (a) "Γ is consistent".

   $\Gamma \nvdash \bot$.

   (b) "Γ is satisfiable".

   $\Gamma \nvDash \bot$.