Today  Reducibility and undecidable languages, continued. Ch. 5.
Next class  Catch-up and mini-review.

1. List the members of your group below. Underline your name.

2. Prove or disprove each, for languages $A$ and $B$:
   (a) If $A \leq_m B$ and $B$ is decidable then $A$ is decidable.
   (b) If $A \leq_m B$ and $A$ is decidable then $B$ is decidable.

3. Prove or disprove each, for languages $A$ and $B$:
   (a) If $A \leq_m B$ and $A$ is regular then $B$ is regular.
   (b) If $A \leq_m B$ and $B$ is regular then $A$ is regular.
4. Provide precise definitions of the following languages.
   
   (a) Equivalent CFGs.
   (b) Non-equivalent CFGs.

5. Prove or disprove the (1) decidability and (2) recognizability of each language in Question 4.