CSI 350 — Theory of Computation, Fall 2005

Handout #6 - Monday, November 28, 2005

- 1. HW #5 (four problems) due Monday (12/5) at the start of class.
- 2. Homework (#5)
 - (a) Explain reducibility.
 - (b) Show that $REGULAR_{TM}$ is undecidable.
 - (c) When A reduces to B:
 - i. If B is decidable, what does this tell us about A?
 - ii. If B is undecidable, what does this tell us about A?
 - iii. If A is decidable, what does this tell us about B?
 - iv. If A is undecidable, what does this tell us about B?
 - (d) Explain the difference between P and NP.