

Department of Computer Science, University of Houston  
COSC 3340 - Exercise Set 5  
Fall 2004, Due November 30, 2004 at 4pm.

1. Exercise 4.5 of text.
2. Let  $GI = \{ \langle G \rangle \mid \text{CFG } G \text{ generates a finite language} \}$ . Prove or disprove that  $GI$  is Turing decidable.
3. Problem 4.17 of text.
4. Problem 5.13 of text.