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COSC 4111/5111 3.0—Fall 2001

Date: Oct 26, 2001 Due: TBA in class and Web page.

Problem Set No. 2

Problems are from "Computability", Chapter 3.

- (1) For all. Nos. 3, 7, 18, 22, 23, 26, 29, 30.
- In #29 note that you cannot say "by identification of the two variables we obtain $\{x : \phi_x(x) \downarrow\}$ which is not recursive, etc.". There are *no* two variables, but only one, as in: $\{z : \phi_{Kz}(Lz) \downarrow\}$. In other words, do not confuse $\langle \ldots \rangle$ with (\ldots) .
- (2) Additional problems for the graduate students. Nos. 1, 10, 12, 37.