

that the machine is non-deterministic show how this part of the information can be represented by the values of a number of boolean variables, and a formula in the style used in the problem 3-SAT can be written down to ensure that the sequence of states is one that does correspond to a valid computation of the machine.

*[8 points: note marks will be deducted if you attempt to document how to extend your demonstration to cover other aspects of the machine's behaviour.]*

### 8.1 Marking notes

Basically standard documentation from Cook's Theorem.