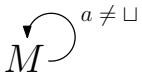
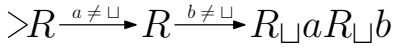
COMP3721 Tutorial 7

1 Turing Machines

Q1. Knowing that $M = (K, \Sigma, \delta, s, H)$, give the mathematical definition of the following Turing machine.



Q2. Explain what this machine does on the input $\triangleright\sqcup w$.



Q3. Trace the operation of the following Turing machine when started on $\triangleright\sqcup aabb\underline{\sqcup}$.