Rajat Sethi – CPSC 3500 – Testlet 4

1a.) False

1b.) True

1c.) True

2a.) No, not guaranteed to be long enough.

2b.) No, it is pumpable with v and x being 0.

2c.) Yes, with v = 1 and x = 0, if either are pumped then it will mismatch with the other half.

3a.) 1110 and 0010

3b.) 0000 and 1111

3c.) This TM accepts all binary strings that end with “10.”