

Department of Mathematics
MTL 106 (Introduction to Probability Theory and Stochastic Processes)
Tutorial Sheet No. 8
Answer for selected Problems

2. a) 0.279 b) 0.0168

3. $1/2$

4. a) 0, 1, 2, 4-transient; 3-recurrent

b) $\{0\}, \{1\}, \{3\}, \{2, 4\}$ -communicating class; $\{3\}$ -closed communicating class

6. a) $\pi = (6/16 \quad 3/16 \quad 7/16)$

b) $\pi = (4/19 \quad 6/19 \quad 9/19)$

I Semester 2024-25