

## Solution to Problem 5.6

Applying either the convolution algorithm or MVA, we can get the following solution.

For $Q_1$	Mean Queue Length = $0.215188$ Mean Waiting Time = $0.074276$ Mean Throughput = $0.507190$ Visit Ratio = $1$
For $Q_2$	Mean Queue Length = $0.084750$ Mean Waiting Time = $0.020970$ Mean Throughput = $0.312766$ Visit Ratio = $0.61667$
For $Q_3$	Mean Queue Length = $0.774200$ Mean Waiting Time = $1.111678$ Mean Throughput = $0.295859$ Visit Ratio = $0.58333$
For $Q_4$	Mean Queue Length = $4.925900$ Mean Waiting Time = $7.918800$ Mean Throughput = $0.496620$ Visit Ratio = $0.97917$