Solution to Problem 5.4

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

For Q_1 Mean Queue Length = *0.318335*
Mean Waiting Time = *0.228111*
Mean Throughput = *0.325439*
Visit Ratio = *1*

For Q_2 Mean Queue Length = *3.802020*
Mean Waiting Time = *2.170507*
Mean Throughput = *1.301837*
Visit Ratio = *4*

For Q_3 Mean Queue Length = *0.879640*
Mean Waiting Time = *0.601382*
Mean Throughput = *0.650919*
Visit Ratio = *2*