Cole Hurst

Problem 1 2=70 |sec = 1200 |min a) probability 1000 requests a minute  $\frac{2 \times e^{-\lambda}}{\times !} = \frac{16.7}{0!} = \frac{16.7}{0!}$ 20 gracess | Ses -> 60 process | 3 sec d) 20/sec x.7 = 14 processes sec 2 5 requests in queue
10 MSec of Waiting p. request
10 request 1 sec = 2
5 request waiting for service
W= M · 2
5= .01 · 2

500 process sec 16 msec - olsec 30) 2 = 70.P/sec .35 sec .035 x 20 = .70 = 70% Utilization 5.5 processes