I ( File of the series of the

Hene, Mean Armival time,  $\eta = \frac{5}{9}$  min

Mean Service time,

$$\mathcal{M} = \frac{5}{10} = \frac{1}{2} \text{ min}$$
 entrow bright

Utilization faction

$$P = \frac{\lambda}{u} = \frac{5}{9} \times \frac{2}{7}$$

$$= \frac{10}{9}$$



jan 6/3/2:

Expected vaitly time per constrmen, queques

Wa = 2ul(u-2)

1.400 6- 6

Mary Selving Minner

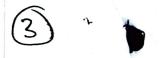
and all moderations

$$=\frac{5}{9}\times\frac{18}{2}$$

= 10

Expeted waiting time pen Chytomen Systemy

$$=10+\frac{1}{\frac{1}{2}}$$



Expected Number of Customer in queue,

$$L_{q} = \frac{7}{2\mu(\mu-7)} = \frac{\frac{25}{81}}{\frac{1}{18}} = \frac{50}{9} = 5.56$$

Expeted Mimban of enstomen in System,

$$Ls = Lq + \frac{\pi}{M}$$

$$= 5.56 + \frac{5/9}{1/2}$$

$$= \frac{-60}{9}$$