Problem 6.1

Q: mean so burn time DTMC examples.

Solution Example 5.2

 $E(T_i) = \frac{1}{1 - p_{ii}}$ 

E(To) = 1 = 1 = 1-80

 $E(T_{i}) = \frac{1}{1-p_{i}} = \frac{1}{1-0} = 1$  (2=2,3...m)

Example 5.5

 $E(T_0) = \frac{1}{1-\rho_{00}} = \frac{1}{1-(1-\alpha)^2} = \frac{1}{1-(1-2\alpha+\alpha^2)}$ 

$$=\frac{1}{2a-a^2}$$

 $E(T_i) = \frac{1}{1-(1-\alpha)} = \frac{1}{\alpha}$ 

$$E(T_2) = \frac{1}{1-1} = \infty$$