HOMEWORK 18 JUAN PABLO ROYO SHUES.

A. A. 81

X: Number Packet in system

0: No packets

1: 175

$$P12 = \frac{3}{4}$$

$$P21 = P5 (1-P5) (1-Pa)^2 = \frac{1}{18}$$

$$Tr_{0} = \frac{1}{4+2+21} = \frac{1}{24} \left[\frac{1}{\Gamma_{1}} = \frac{1}{12} \right] \frac{1}{\Gamma_{1}} = \frac{1}{8} \left[\frac{1}{\Gamma_{2}} = \frac{1}{8} \right]$$

$$T_0 = \frac{1}{G}$$
 $t_1 = \frac{1}{G} = \frac{1}{G} = \frac{1}{G}$
 $T_2 = \frac{1}{G} = \frac{2}{G} = \frac{1}{G} = \frac{2}{G}$

$$G = 1 + 2 + 2 = 5$$

$$T_{0} = \frac{1}{5}$$

$$T_{1} = \frac{2}{5}$$

$$T_{2} = \frac{2}{5}$$

$$T_2(0) = -2a - 5b = 0$$
 =) $-2a = 5b$ $1 = \frac{1}{2}b$ $a = -\frac{5}{2}b$

$$T_{b}(t) = 1 - 3e^{-2t} + 2e^{-5t}$$

$$a = -\frac{5}{2}6$$

$$2! = 6$$

$$a = -3$$

$$N = \lambda T$$
 $N = \frac{2}{1-2} = \frac{-2}{-2}$

$$N = \frac{2}{1-2} = \frac{-2}{1-2}$$
 $N_0 = \frac{4}{1-2} = \sqrt{-4}$