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ESY

1)
$$P(mot-walking) = \frac{1/B}{1/A+1/B} = \frac{1/19e}{1/49A+\frac{1}{2}} = \frac{1}{19A} = \frac{1}{19A} = \frac{1}{19A} = \frac{1}{20}$$

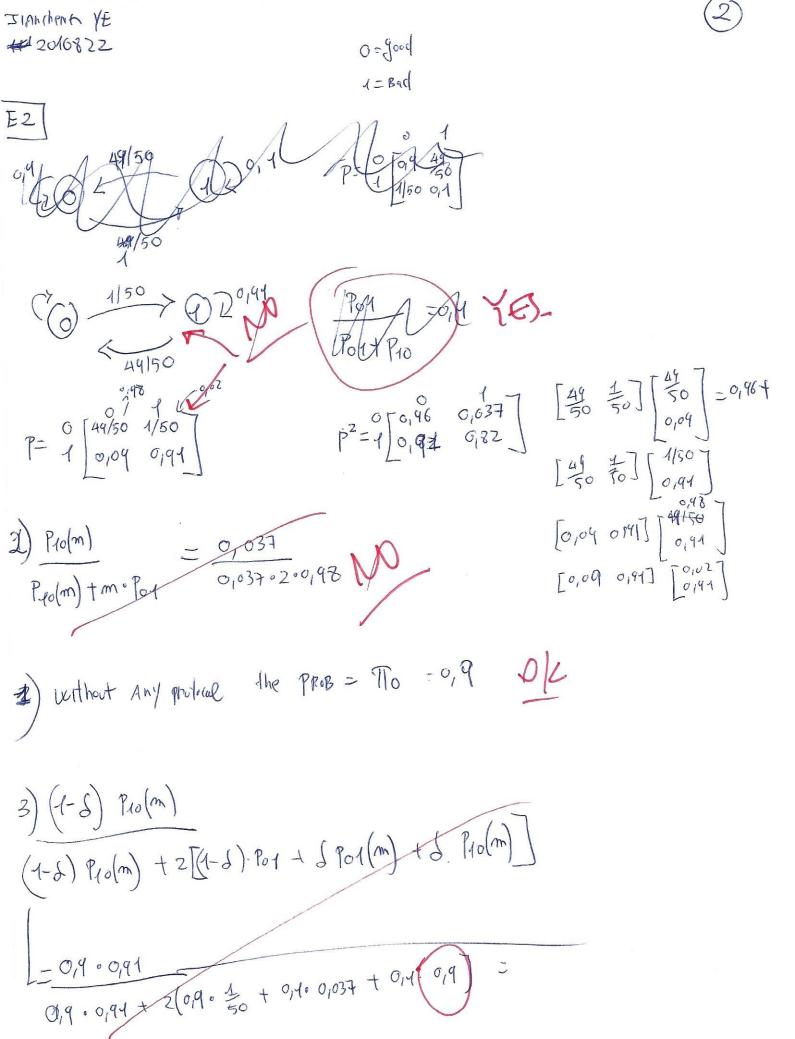
$$P(Both Not wantary) = \left(\frac{1}{20}\right)^2$$

EXP[System power] =
$$\frac{1}{19\lambda}/2 = \frac{2}{19\lambda} = \frac{7}{19\lambda}$$

So, in the zone (), (at least 1 Work) =
$$\frac{2}{192} \left(\frac{1}{192}\right)^2 - \frac{2}{192} = \frac{7}{192}$$

1 Processor: 250M bps . 19 = 237,5 Mbps W

2 Profession: 20237,5= 475 MbPS



 $\chi(1)$ (on $\lambda = \lambda + \lambda 2$

$$\frac{11}{P(X(1) = 1 \mid X_1(2) = 1)} P(X_1(2) = 1) P(X_1(2) = 1)$$

$$\frac{P(X(1) = 1 \mid X_1(2) = 1)}{P(X_1(2) = 1)} = \frac{BAYeS}{(a)}$$

$$P(X|Y) = 1 |X|(2) = 1 = e^{-1}$$

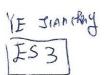
$$P(X|1) = 1 |X_1(z) = 1) = e$$

$$P(X_1(z) = 1) = P_e(P_o(z\lambda_1) = 1) = \frac{\lambda_1 \cdot R^{-\lambda_1}}{1!} \qquad (with \lambda_1 = 1) N$$

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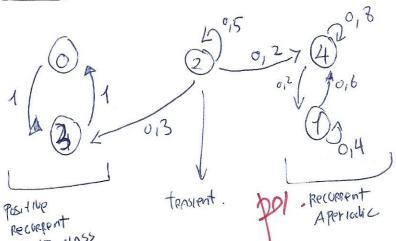
$$P(X|A)=1)$$

$$P(X|A)=1) = P(P_0(2(\lambda_1+\lambda_2)=1) = \frac{(2\lambda_1+\lambda_2)^4 \cdot R}{1}$$



SHE CLASS

PERIOd= 2



414 0,3 - RECURRENT 2 -> traspent

$$\lim_{h \to +60} P^{h} = \frac{1}{2} \times \frac{3}{40} \times \frac{4}{0} \times \frac{3}{40} \times \frac{3}{40} \times \frac{1}{40}$$

$$\begin{cases} 0 & 1 & 2 & 3 & 4 \\ 1 & 0 & 0.14 & 0 & 0 & 0.67 \\ 1 & 0 & 0.12 & 0 & 0 & 0.8 \end{cases} \begin{cases} 0.4 \pi 1 + 0.2 \pi 3 = \pi 1 \\ 0.6 \pi 1 + 0.8 \pi 2 = \pi 4 \\ \pi 1 + \pi 4 = 1 \end{cases}$$

$$\frac{4}{70}\pi_{4} + \frac{2}{70}\pi_{4} = \pi_{4} - 74\pi_{4} + 2\pi_{3} = 40\pi_{4} - 72\pi_{3} = 6\pi_{4} - 7\pi_{3} = 3\pi_{4}$$

$$\frac{6}{70}\pi_{4} + \frac{7}{70}\pi_{4} = \pi_{4}$$

$$\pi_{4} + \pi_{4} = 1$$

$$-77\pi_{4} + 3\pi_{4} = 1$$

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$$-77\pi_{4} + 3\pi_{4} = 1$$

$$-74\pi_{4} = \frac{3}{4}$$

P(ASORROD BY 4) 7

P(2" state is Asorbod by the class 1873)
$$\alpha$$
 (P LIMiting 1843) =

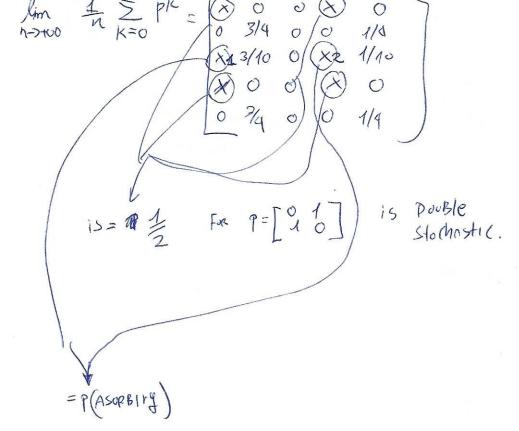
 $\frac{0.12}{0.15} = \frac{2}{5}$

$$P(2 \text{ Asopher By } 4) = \frac{2}{5} \cdot \pi_4 = \frac{2}{5} \cdot \frac{1}{4z} = \frac{1}{10}$$
 $P(2 \text{ II II } 1) = \frac{2}{5} \cdot \pi_1 = \frac{2}{5} \cdot \frac{1}{4z} = \frac{1}{10}$



BEHIND

SORRY FOR the MISTAKE



$$x_2=x_1=\frac{1}{2}\cdot\frac{0_{13}}{0_{15}}=\frac{1}{2}\cdot\frac{3}{2}=\frac{3}{10}$$

M(E) -> HUMBER of RENEWAL time in the [0, t]

Consider:

$$\leq_{N(t)} = \sum_{i \geq 0}^{N(t)} \times_i$$

We have :
$$SH(t) \leq \frac{1}{t} \leq \frac{SH(t)+1}{t}$$

$$\frac{SH(t)}{H(t)} \leq \frac{t}{H(t)} \leq \frac{SH(t)+1}{H(t)}$$

For the LORGE NUMBER LAND.

$$= E[X] = \mu.$$

$$\lim_{t \to too} \frac{S_{n}(t)}{N(t)} \quad \text{further same Bohavior of } (A) \quad \text{if } M \to too \to 000 = 1/4.$$

$$\lim_{t \to too} \frac{S_{n}(t)}{N(t)} + 1 = \mu.$$

$$\lim_{t \to +\infty} \frac{S_{n(t)}}{r(t)} + 1 = \mu$$

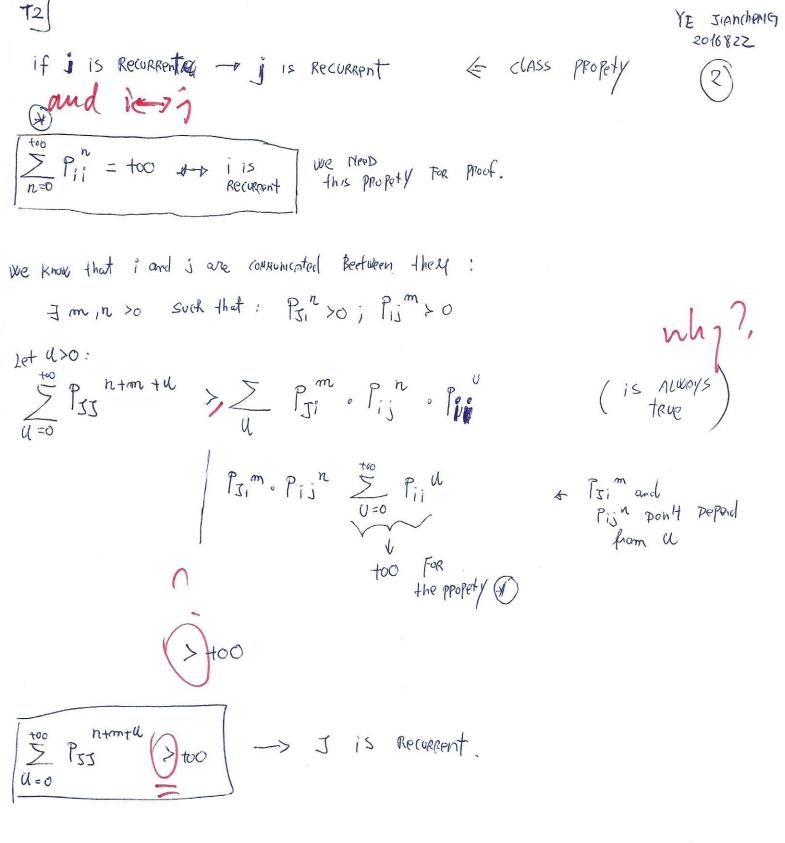
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lim N(t) = 1 W. P. |



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$$P[X(\mathbf{S}) = K \mid X(t) = n) =$$

$$P[X(s)=K \mid X(t)=h] = P(X(s)=K \land X(t)=h)$$

$$P(X(t)=h)$$

$$P(A|B) = P(A|B)$$
 $P(B)$

Residen
$$P(f_0(\lambda)=k) = \frac{\lambda}{K!} R^{-\lambda}$$

$$\frac{1-A \cdot L^{(1)}(L) \cdot ((1))}{P(x(t)=n)}$$

$$= \frac{(\lambda s)^k - \lambda s}{(\lambda s)^k + (\lambda s)^k}$$

$$\frac{\left[\lambda(t-s)\right]\cdot e}{\left(n-\kappa\right)!}$$

$$\frac{\left(\lambda r\right)^{n} \cdot e}{n!}$$

$$\binom{n}{K} \left(\frac{s}{t}\right)^{K} \left(t - \frac{s}{t}\right)^{n-K}$$

In 9:
$$P(X(7)=4 \mid X(3)=2)$$

$$P(X(7-3)=4-2)$$

Geheral :

$$P[X(s)=K \mid X(t)=h) = P(X(s-t)=K-h)$$

 $P(X(s-t) = K-h) = [A(s-t)]^{Kh} - A(s-t)$ $= [A(s-t)]^{K-h} - A(s-t)$ = [K-h) [(K-h) [