Probens 1 E(0) = 0,12 506/c/1 1 = so cliss E61= ? 1=1 0,18 sa6/cli = 1 soch/sac (1-P2) 0,15 sector. 50 ch/586 (1-P2) = 1 7,5 (1-12)=1 7,5-7,5 (2 -1 => -7,5 (2 - 1-7,5 -7,5 P2 = -6,5 => P2 = -6,5 P= Vas => P=0,931 E(n) = 2P = 2.0,93 = 186 $1-P^{2} = 1-0,93^{2} = 0,1351$ E(n) = 13,76 | => 0,93.2.50 cl/sec=> 1=93 cl/sec 0,93 = 1 2, sodilse6

Problema 2

E(+) = 0,085 see/c/11

M = 12 cli/se6

E(n) =]

7 = 1

 $E(T) = \frac{1}{2(1-p^2)} = \frac{1}{2} E(T) = \frac{1}{2} \cdot \frac{1}{1-p^2}$

7 E(+) = 1-12 => 1 12 cli/(se6 0,085 sec/cl)

-0,9803+1= 12 => 1= V0,0196

1=0,14002

E(n) = 21 = 2.0,14002 = 0,2856

 $l = \frac{\lambda}{2\pi} = 0,14002 = \lambda$ 2 12 dike6

1= 0,14002. 2.12 dilse6

7 = 3,36 di

Problems 3

$$\lambda = 28 \text{ ch/sec}$$
 $T = 0$
 $T =$

$$E(T) = E(h)$$

Problems 5 1 = 40 dilse6 1, = 48 ch/sec 72: 8 ch/sec Print = \(\lambda = 40 \, \text{clises} = \frac{5}{6} = 0,8333 Pc = 1 - 1/1+r) r = 72 = 8 ch/sec = 0,1666 Pc= 1 - V0,1666 (1+0,1666)2 (c=1-1) 110277 = 1- VO, 1890 = 1-94347 PC = 8/2650) QH17/1 > P 0,8333 > 0,5650

SI conviene 2622620 el servidor sin Selección de servidor

(8)
$$\pi_0 = 1 - \frac{n|n|}{2}$$
 $1 - \frac{n|n|}{2} + \frac{\lambda}{2}$
 $1 - \frac{n|n|}{2} = \frac{\lambda}{2} + \frac{\lambda}{2} + \frac{\lambda}{2}$
 $1 - \frac{\lambda}{2} + \frac{\lambda}{2} = \frac{\lambda}{2} + \frac{\lambda}{2} + \frac{\lambda}{2}$
 $1 - \frac{\lambda}{2} + \frac{\lambda}{2} = \frac{\lambda}{2} + \frac{\lambda}$

```
40 chilses
    (1-0/7/45) [40ch + (1-0/7/45) 13,7/45 ch
       0,2838 (40 disse + 3,9195 chisse)
D = 40 ch/sec = 3,1877 |
(c) como conviene seresese el servidor
Sin selection DE SERVIDOR ENTENCES CONVIEND
dun mas deregar el servidor con selección
DE SELVIDOR
      Palali > le (sin selec) > le (con selec)
(D) TTO = 1- P7/1/2
          1-11/12-1
 ns = n, +n2 => ns = 48 disse + 8 disse
```

ne = 56 c/1/506

2'= (2) + ng) n. n2 か。(入+カラ) 1'= (2 40 clisses + 56 clisses) 48 cli 8 cli \$6 di/526 (40 di/526 + 8 di/526) 2 = 136 chises. 48 dises. 8 chises 56 di 1526 (40 disse + 8 di 1586) 2 = 52224 = 19,4285 chisse Tto = 1- Pn/1/2 1- 17/1/2 = 1-0,7142 1-0,7142 + 40 ch/see 19,4285 clipes 0,2858+2,05 = 9,2858 = 0,12 | 0,2858+2,05 = 9,2858 = 0,12 | (1- Print2)[]+(1-Print2)2] to chilses (1-97142) [40 ch + (1-0,7142) 19,4285 ch

N = 40 ch/sec

0,2868 40 ch + 5,5526 ch/sec

N = 40 ch/sec = 3,07341

Pedlens 6

Wo = 38 mess

P1 = s eli

VEI = 58 msec/cl.

W, = wo + Q, TS, + 1 ch TS1

W1 = 38 maso + 5 ct 88 maso + 10t. 88 masolet

W. = 386 maze

we = wo + Q, Ts1

Up. = 38 msec + set 58 msec

Wp, = 328 mse6 1

Problems 7 (S, D) 64, 1) 43, 2) 1(2,3) 1(14) 0(2) Entrada = Salida ATT., 2 + 1. TTS, 1 + 12 TTZ,3 = A TTZ,2 + 1, TTZ,2 + 1/2 TTZ,2 XTT, 2+7, T3, 1+72 T12,3 = T12,2 ()+1,+12)

 $T_{2,2} = \lambda T_{12} + \eta_1 T_{3,1} + \eta_2 T_{2,3}$ $\lambda + \eta_1 + \eta_2$