Friction 41 Il Dole de estes med de la 1.1. Etalità l'= l'ac lo, y de ot enofacie UAD = C devisor: CA = TVB [ UAD CAD UAD] = ZEX CAEX Sind form a Ex Pribar terbien & Ex Est-100 A Anten, Vecordenos que la enchado tentrant tere cons Contecuerce for UCV late U er el ot endición tentral. En etail. el Vilena esté investignate e el chi 16,2 Con Prob. to curb of bill enteriore ether or all edito Ulas Ca knob. Pi e= 2 + 14 ×41 + 2 + 014×410+ Bonnems. and le extention PA = TVR [UAB RAD UAD] Element a Comer Une Ron de flo (187)  $C_{B} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$   $C_{A} = \frac{1}{2} + 0 | U_{0} \times \psi_{0}$ 

(Keei) = Z Willing 1 Qux and = > (u+) h l / bp | l l x x Qn | Ca = E und The qui (Mt) n' & Theil enxant E Nelica (Kee') = la = E 4 m 1 Q m x Q m 1 = 2 und Top 1 en X cen 1 en > 9 m < en 1 en X cen 1 n, n' (let ) n''l de l' bei = \( \sum \mathbb{U} \min \mathbb{N} \) \( \mathbb{N} \min \mathbb{N} \min \mathbb{N} \min \mathbb{N} \) \( \mathbb{N} \min \ \( \lambda \lambda \lambda' \l = \( \sum\_{\mu, \varepsilon'} \) \( \sum\_{\mu, \varepsilon'} \

12 = UU+ = Z hind (u+) und 100 49 X Onight => \sum \langle \langl => id = (U/10 UU+ 14")B Moreve le verspiente, e 11.16 net1: E Keer (Neer) = 2 < 42/B UAB / 48/20 bo1 < YIND UAT 141/c = 2 pp ( 401B UAD 2 142 4010 UAN 408 = Z Pg idA

11111

(A'= (1-+) (A+ + Z (AZ CAB - CAB = VAD CAD VAD = (10x010 is + 11x110x)(PA & 14x4) (loxoloid - lixhex) = 10×0/Palo×010/4,×4,1 FloXolealixil & IUX HAIX + 11×11PAIOXOLO XIYEXUL + IIXII PAIXII OXIUX 4.1X Tomal (U6) - 1+7+7-1-) Notarel 1 X => X (46) = (11) - 31-> => ( = Tro (AD = <0 (PA 10) 10X01 (101 + 1012) + (0/(4/1)/0X/1 (1913-1013) + <1.16,10>11X01(10/12-11/2) + KIRIONXII(121) + 1012)

Toute Jondo. e. cot. Matrice 2 (AZ = (0-1) (loo (10) (0-1) = (loo - (10) (loo (11)) => (A) = 1212 CA + 1717 ZCAZ Inchest of eth. find core (A'= (1-1) (A + PZ (AZ todome idetilier a IBI = 1-1 g b= 212,

la lair le normingación le probabilida.

que concrete con la le le normalyación de 14) La de le Mour Muit 9 et Enderin Levin Eo = /1-+ 1/A = 12/11/A E = VPZ = 1P1Z Ali, Berere time le endoción como le dina Le elemente no diagondes, notarlo, te ejentlo, que tore ( 140) = +(1+)+1-) = 10) 1. P= 1) el Men A ro encloració.

tre (+= (A M/ MMM PAM PAM

14) = 1+) (. P=0)

6) Le st and he there in I tradente CAD : CAO CO, le contoire de CA etc.

Si Co = } te 140×401 => Kee = (4elo Un) (40) / Pg1 = 10×01 (40/401) FROIT 1X11 (40) X 400 JE Setoriendo un Sitema le lon albitt, y les. Kte = (loxo + lixing) (+140) / For S: (B = 2 en la bale contatione) · · > (B = + + 0X0 | + + 1 | | | | | + | + + | + | | - | | => K + e = (10×01, + 11×11, ) S+e ==

3) Seen 
$$l_{in}$$
 or  $l_{in}$  Keed

E.  $loxol + Jir' lixil$ 
 $l_{i} = \sqrt{r} loxil + r [o,i]$ 

$$l_{i} = \sqrt{r} loxil + r [o,i]$$

$$= (loxol + \sqrt{r} r lixil) (loxol + \sqrt{r} r lixil)$$

$$+ b lixol oxil
$$= loxol + (l-r) lixil + b loxol$$

$$= loxol + (l-r) lixil + b loxol$$

$$= (l+r) loxol + (l-r) lixil
$$= loxol + lixil + b loxol$$

$$= (l+r) loxol + (l-r) lixil$$

$$= loxol + lixil + b loxol$$

$$= (l+r) loxol + (l-r) lixil$$

$$= loxol + lixil + b loxol$$

$$= loxol + loxol + lixil + b loxol$$

$$= loxol + loxol + lo$$$$$$

E. CA E. = { (E, E, + , V x, E, Ox, E, ) photo le not internal E. - ( o Ti-1) y metiende tobe en al Matainetica = \frac{1}{2}\left(\frac{1}{1-p}\left(\frac{1}{1-p}\left(\frac{1}{1-p}\right)\left(\frac{1}{1-p}\right)\right) Ancloge mete con 1:-7, 9 some 50, 06tereno,

(1+(1-83)b (1-182)(1-18)

(A = 2 (1+182)(1-18) 4 Contiderano de la virale con estivo 10) 10 con energia la pertua 0 y E Ente interaction de la contro de entre la 2 11) = Qu'10) (a, Fu=E. are of conto to entrete a cel eith in act loxol yearen fall for ot. Le Kren que de la la la la la 10/01 UAC = 100 X00 | + (00 (101X01) + 110X101) + Bend (101×10) - 110×011) + 111×111

$$H = \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix} \rightarrow e^{-iHI} \begin{pmatrix} 0 & e^{-iHI} & 0 & e^{-iHI} \\ 0 & 0 & 0 & 0 \end{pmatrix} \begin{pmatrix} 0 & e^{-iHI} & 0 & e^{-iHI} \\ 0 & 0 & 0 & 0 \end{pmatrix} \begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 &$$

Porte 2

I) See 
$$|B| = \sum_{N=1}^{\infty} \frac{1}{N} |j\rangle$$
 Some  $M = \frac{1}{N} \frac{1}{N} |j\rangle$ 

I)  $|A| = \sum_{N=1}^{\infty} \frac{1}{N} |j\rangle$  of al. enlayed, can  $N = 2^{-1}$ 

Note to  $N =$ 

Jee O si hater (marth) Jeles a Oljo = (-1);

y le iten se de leanne (-- (2) + X4 | -it) C

Luego Otto conde a la ret, colorens de

Lych 20. Can ha 0= /// er of the sea

2. 18) y 1A)

(c) 0 = /1-De, 70 = /1-M = /N-M

=> | \phi > = Fenc | E) + (u \theta | A)

0 10) = Non 0 10) + (an 0 1A)

: 1e (-0) 1B) + (a (-0) A)

de ete modo poverno ded la la reste del mille (m) Var ota leto; 1 (6t) wrote to entito orligory (2 | 6×41-10) | 6>= 10) (2 | 6×61-1) | 6+) = -(6+) 10 Mole Gue (2/6Xd)-id) Seroh Un rellexing rentedo a les Por la testo, et ot 6 Grover, vetretet to vit. Liego de niverionen et et le vontile sen 6"107 = Ne (12 n+ 0) (A) 1 ( (2m) 6/18) Pin une et etes nontrate te Mon, Jeson N/6" 10) = B (=) 0 (2M+1) = T (=> N-11-1) By L. 11 9 (1 =) Son 0 = 0 => N ~ /M = = = O(N).

2 S: H= KW (1BXB1 + 10X01) = +6/2 en el inter à violet le vehic. Il le 7 | AY, 10> 4, 10> = & 1B> + P/A> => | \$\delta \times \delta | = | \delta \del => H= ma (2) (2) = 10 (i2 + 2 (Box +200)) User to the other the in of it Vote cier colonemen de el a post de H U= e= HX = e [ [co (Wdx)id-isa (all) (Pozzolo)] Iground he the the the bell ent terenon. U 107 0. (wolf) 10) - De (wolf) 18) Logic (18) = 18) (=> Wax = 1 => | t = 1