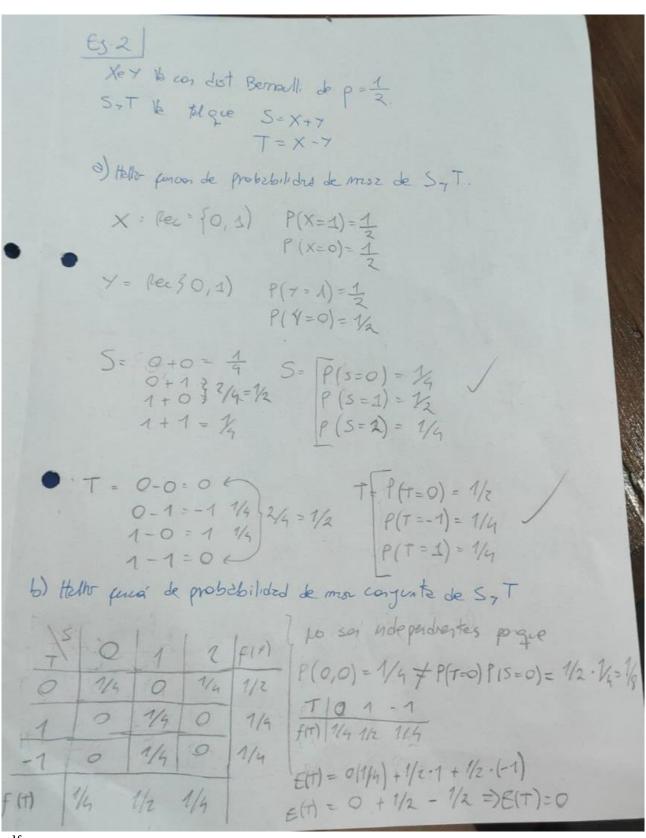
Plactico 5. EJ. I) Xe7 so Va can Rec. \$1,2,3,49 P(x,y)(n,m) = n+m 80 a) Collator P(X),3)
1 2 3 4 1 40 380 120 1/16 2 380 1/10 76 360 3 1/20 1/16 360 780 4 1/16 3/40 3/80 1/10
$P(XZ/3) = \frac{1}{20} + \frac{1}{40} + \frac{3}{30} + \frac{1}{40} + \frac{3}{30} + \frac{1}{40} + \frac{3}{30} + \frac{1}{40} = \frac{3}{50}$ $P(X = Y)$ $P(X = Y) = \frac{1}{40} + \frac{1}{20} + \frac{3}{40} + \frac{1}{40} = \frac{1}{40}$
• c) colube $P(X:Y=6)$ $P(XY=6) = \frac{1}{16} + \frac{1}{16} = \frac{1}{8} \checkmark$ d) $P(1 \le X \le 2, 2 < Y \le 4)$ $P(1 \le X \le 2, 2 < Y \le 4) = \frac{1}{29} + \frac{1}{16} + \frac{1}{46} = \frac{1}{4} \checkmark$
e) Son Xe 7 Independientes? Si B N, y / Px(n) - Py (y) # P(n,y) (x,y) -> no se independient Si B N, y / Px(n) - Py (y) # P(n,y) (x,y) -> no se independient

los à calcuter les mugintes de X e 7 pon congrobo: Margineles de X $P_{x}(x) = \begin{cases} 7/40 & \text{si } n = 1 \\ 9/40 & \text{si } n = 2 \\ 11/40 & \text{si } n = 3 \\ 13/40 & \text{si } n = 7 \end{cases}$ P(x=1)= \frac{1}{40} + \frac{3}{20} + \frac{1}{20} + \frac{1}{16} = \frac{2}{10},
P(x=2)=\frac{3}{20} + \frac{1}{10} + \frac{7}{10} = \frac{7}{10} P(x=3)- 10+ 16+ 30+ 20= 40 P(x=4)= 16+ 30+ 20+ 10= 130/ $P_{3}(t) = \begin{cases} \frac{1}{40} & \text{si } t = 1 \\ \frac{9}{40} & \text{si } t = 2 \\ \frac{11}{40} & \text{si } t = 3 \\ \frac{13}{40} & \text{si } t = 4 \end{cases}$ $P(y=1) = \frac{1}{40} + \frac{1}{30} + \frac{1}{10} = \frac{1}{40} = \frac{9}{40} = \frac{9}{40} = \frac{1}{40} =$ P(Y=3)=1+16+30+3=1/6 P(Y=4)=16+30+30+10=13 Pu,y(2,3) = 1/16 + Py(3). Pn(2) = 1/30. 9/40 = 99/1600 Ly Xe 7 no son independientes.

sdf



sdf

```
P(5=0, T=0)
            P(5=0)
                                           7=0) P(x=0).P(x=0)=1/2 1/2 = 1/4
                                                                                                                                                                                            costinued hope exterior
                  x=1 x=1
                                                                                                                            E(S) = 0.1/2+1.1/4+ 2/4/4
          P(5=0, T=1)
          P(5=0)
                                                                                                                              E(5) = 0 + 1/4 + 1/2 = 1/8
                                                           Kero comoderozs
                                                                                                                               E(r.s) = 0.1/3 = 0
                X=1 7=0
         P(S=0,T=-1)
                                                                                                                                   C(TS)=9/1
         P(5=0) 7=0 1
         P(T=-1)
x=0 7=1)
       P[5=1 (T=0)
       P(5=-1)
                                                                 Leve
      P(T=0)
                  x=0 7=0
                  x=1 7=1
     P(s=1, T=1)
                      x=0 1=1 P(x=1). P(+=0)-1/2-1/2=1/4
      P(5= 5)
  P(T=-\frac{1}{2})
P(x=0)- P(y=1)=1/2 \cdot 1/2 = 1/4
P(T=-\frac{1}{2})
P(x=0)- P(y=1)=1/2 \cdot 1/2 = 1/4
    P(5=1, T=-1)
 P(S=2)
x=1
y=1
y=1
y=1
y=1
y=1
y=1
P(s=2, T=1)
P(s=2, T=1)
P(s=2)
Y=1
```