



```
9
333333
            = Vac [] = [ ng(1-p,) -np,p2 -- np,pk
                                                               npx(1-px)
-
                                           uniform discrete
                    X,, X2 = ((((0,1,2,3)) =
                                                          0 wp 1/4
                                                          1 wp 1/9 = 4 1 xe{0,1,2,3}
-
-
-
                                                          3 wp 1/4
                   generally X2 U(A) = 1A1 1 param space ACR and IA/200.
1
-
                  T = X1 + X2 ~ PT(t) = meant as a hw example
                   Y = - X = g(x) Y is a func. of rv X
        mid 1
         mid2
-
-
                   Y~ Py(y)
                                       X=0 => Y=0 Supp[Y] = - Supp[X]
-
-
                                       X=2 => Y=-2
-
                                       X= 3 > Y=-3
-
                   P_{y}(y) := P(Y = y) = P(-X = y) = P(X = -y) = P_{x}(-y)
1
                  this is for all discrete rivis let ===== 
Supp[Y]={Z: Py(Z)>0} == {Z: Px(-Z)>0} = {-Z': Px(Z')>0}
1
                   = - {z': Px(z')>0} = - Sup[X]
1
                  X1, X2 id Poisson (2) from pra. (lass X1+X2 ~ Poisson (22)
つつつ
                 X_1 - X_2 \sim ?
D = X_1 + (-X_2) \sim ?
Y
P_{y}(y) = \frac{e^{-2}}{(-y)!}
Supp[x] = \mathbb{Z}_{0,1,2,...}
Supp[x] = \mathbb{Z}_{0,1,2,...}
Supp[x+y] = \mathbb{Z}_{0,1}
Supp[x+y] = \mathbb{Z}_{0,1}
Supp[x+y] = \mathbb{Z}_{0,1}
7
                 R(d) = E Poid (x) Poid (d-x) 1 d-xe supply]
3
```