043	bonsides 2 i.i.d sandom variables & and &
	each troing uniform distribution between the introd
	o and I Define Z = X+Y Prove that
<u></u>	E(X Z) = Z
	2
And.	We are given that I amely one i'i'd and
	also have some proobability also bution, hence
	展フェイナイ
	E(X/Z) = E(Y/Z)
	E(X Z)= E(Z-Y Z)
	= E(Z Z) - E(Y Z]
-\	
-	E(X Z)+E(Y Z)= E(Z)Z) - ()
	De also know that E(Z/Z) = Z - Cy
-\	Putting (2) in (1), we get
-\	
-\	E(x/2)+E(x/2)= 2
-\	
-\	Also, E(x/z): E(Y/Z), so,
-\	
_ -\ -\	E(x/2) + E(x/2) = Z
-\	2 F[X Z] = Z
1	E(X Z)=Z 2
<u> </u>	2
H	Hance proved