Example 6.9 fxy = { 2(1-x) } ocxe1, ocyc1 Z=XY=92(xy) Step1) support of Z? Z = XY のくずら Stip 2) graph Z, x plane wit Z, x treet y as construct. OLZCX (incrusighnehin) Shellow but positive closes to us shellow but positive closes shellow but positive closer to 0 fx2(x,2) = fxy(x, g;(x,2)) | d g;(x,2) =  $2(1-x) \left| \frac{d}{dz} \left[ \frac{2}{(x)} \right] \right| = 2(1-x) \left| \frac{1}{x} \right| = 2(\frac{1}{x})^{-2}$  $f_{2}(z) = \begin{cases} f_{x^{2}(x,z)} dx = \begin{cases} \frac{2}{x} - 2 dx = 2 \\ \frac{1}{x} - 2 dx = 2 \end{cases} = 2 \left[ \frac{\ln(x) - x}{2} \right]_{2}^{1/2}$ = 2 [(0-1)-((12)-2)] = 2(-1-In(2)+2) f2(2)={2(2-|n(2)-1); 0<2<1 0;01hrwise