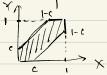
a) First of all, note that X and Y are symmetric.



Given X. Y is a uniform discribution.

For
$$0 < x < c$$
, $f(Y|x) = \frac{1}{c+x} \frac{1}{0 < y} < e+x$
For $c < x < 1-c$, $f(Y|x) = \frac{1}{x-c} \frac{1}{x-c} < y < 1$
For $1-c < x < 1$, $f(Y|x) = \frac{1}{(-x+c)} \frac{1}{x-c} < y < 1$

e) f(v,v) & 1/v/c)c · 1 v+v e(0.1) · 1 v-v e(0.1)

