

ECE 139  
SPRING 2005  
FRIDAY 10A-12P DISCUSSION  
QUIZ #8  
20 MAY 2005

NAME:

$$1. f_{XY}(x, y) = \begin{cases} kxy & 0 \leq x \leq 1, 0 \leq y \leq 1 \\ 0 & \textit{otherwise} \end{cases}$$

- a. find k
- b. Find the marginal pdf for both X and Y
- c. What is  $P[X > 0.5 \mid Y > 0.5]$ ?