Quiz 5

Form A	Name	
Math 130B, 5 PM		
Please justify all your answers		April 27, 2022
Please also write your full name on the back		

1. Two dice are rolled. Let X and Y denote, respectively, the largest and smallest values obtained. Compute the conditional mass function of Y given X = i for i = 1, 2, ..., 6. Your answer should be six functions f(y|1), f(y|2), and so on.

2. If X and Y are independent uniform random variables on (0,1), compute the joint density of U and V where.

$$U = X + Y, \quad V = X/Y.$$