Quiz 03

Instructions: *Answer the questions with precise definitions. Your definitions definitions should either be stated exactly as in the lecture or textbook, or be clearly equivalent to them. Having the "right idea" but not a precise formulation will not recieve credit.*

Problem 1. Let Y_1, Y_2 be random variables. What does it mean for Y_1 and Y_2 to be ***jointly continuous***?

Problem 2. Define the ***expected value*** of a continuous random variable Y. Make sure to state any conditions that must be true for the expected value to exist.