

Quiz Problem 11  
Due Nov. 23rd, 11:59 pm EST

**Problem.**

Let  $(X, Y)$  have the joint PDF given by

$$f(x, y) = 1 \text{ for } 0 < x < 1, 0 < y < 1.$$

What is  $P(0 < X^2 < Y < 1)$ ?

□