Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100%

To pass 80% or higher

Go to next item

1. Are X and Y independent? Where

1/1 point

- $f(x,y)=rac{1}{57}xy^6e^{-y-x}$ where x>0, y>0
- False
- True
 - **Correct** if f(x,y) = g(x)h(y) then X and Y are independent.
- 2. The marginal distribution of X, where

1/1 point

$$f(x,y) = 4xy; x,y \in [0,1]$$
 is

- A function of x
- A function of y
 - Correct
 Correct, marginalize out the variable y
- **3.** The correlation of X and Y equals 0. Are X and Y independent?

1/1 point

- can't tell
- O yes



Correct, if X and Y are independent, corr(X,Y)=0, the converse is not necessarily true.