$O = f_{xy}(x,y) = f_{xy}(x,y$ what is P(X<Y)?  $Solv = \int_{0}^{\infty} \int_{0}^{\gamma} f_{xy}(x,y) dxdy$  $=\int_{-\infty}^{\infty}\int_{-\infty}^{\sqrt{2}}e^{-x-y}dxdy$  $=\int_{0}^{\infty} (-e^{x-y} + c_1) dy$ [P(XXX) = e + c13 + 62