Stochastics Quiz #2

Name:

Consider random variables *X* and *Y* that have the following joint pdf:

1. Find the marginal pdfs fx(x) and fy(y)
2. Find the conditional pdfs fy|x(y|x) and fx|y(x|y)
3. Find the expected values of the conditional pdfs E[*X*|*Y*] and E[*Y*|*X*]