MATH 407 FALL 2009

QUIZ 6

1. Let X be a binomial distribution with parameters $n = 100$, $p = .1$. Use the normal approximation with continuity correction to compute $P(10 < X \leq 19)$. (You may leave your answer in the form of $P(a \leq Z \leq b)$, where Z is the standard normal distribution.)

2. Let X be an exponential random variable with parameter λ. Find the density of (a) e^X; (b) $\ln X$. (Note: Be sure to include the *domain* of each function.)