Math 671 - Assignment 10 - Due Nov. 25

- 1. Text E16.2 (Turn this in)
- 2. Text E16.1 (Don't turn this in, but compare to E16.2)
- 3. (a) E16.4. (b) Do this again without a contour integral. (Hint: clever integration by parts.) Turn in at least one of these, a or b.
- 4. E18.1a (Don't turn this in...yet.)
- 5. Find the moment-generating function for a Bernoulli(p) random variable X. (In other words, P(X=1)=p, P(X=0)=q=1-p.) Use this to find the MGF of a Binomial(n,p) random variable Y. Use that MGF to find the mean and variance of Y. (Turn this in.)