Name:

Quiz 14, Attempt 1

Suppose X ~ χ2(38) and Y ~ χ2(36) are independent.

Express P(X/Y≤ π) in terms of the cdf of a known distribution. Use, for example, the notation Ff(2,3)(⋅) or Fχ2(17)(⋅) to represent the cdf of an f distribution with 2 numerator and 3 denominator degrees of freedom or the cdf of a χ2 distribution with 17 degrees of freedom, respectively.

Quiz 12, Attempt 2

If X and Y are i.i.d. N(5,2), what is cov(X+2Y, 2X-Y)?