**Homework 2.1 Answers, Problems 1,2**

1. This distribution is clearly elliptical, because it is of the form with being spherical. In this case **,** with . To get the characteristic generator we do the integral

Note that in this case The dispersion matrix is just

1. Once again this distribution is elliptical, being of the form with being spherical. In this case, **,** with .

To get the characteristic generator we do the integral

As in problem 1, the dispersion matrix