Special Problem 2-4.1

A point in space is specified with Cartesian coordinates as:

\[ x = -1, \quad y = -1, \quad z = 1 \]

(a) Specify this point using cylindrical coordinates.

(b) Specify this point using spherical coordinates.

(c) Determine the distance of this point from the \( x-y \) plane.

(d) Determine the distance of this point from the \( z \)-axis.

(e) Determine the distance of this point from the origin.