

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.