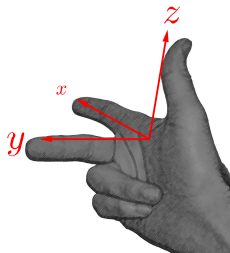# Cylindrical Coordinates

Question

Holding up your right hand as a Cartesian coordinate system, use your left hand to point to the following locations expressed in cylindrical coordinates.

- $(r, \theta, z) = (1, 0, 0)$
- $(r, \theta, z) = (\sqrt{2}, \frac{\pi}{4}, 0)$
- $(r, \theta, z) = (1, \frac{\pi}{2}, 1)$
- $(r, \theta, z) = (1, \pi, 1)$
- $(r, \theta, z) = (\sqrt{2}, \frac{\pi}{4}, 1)$