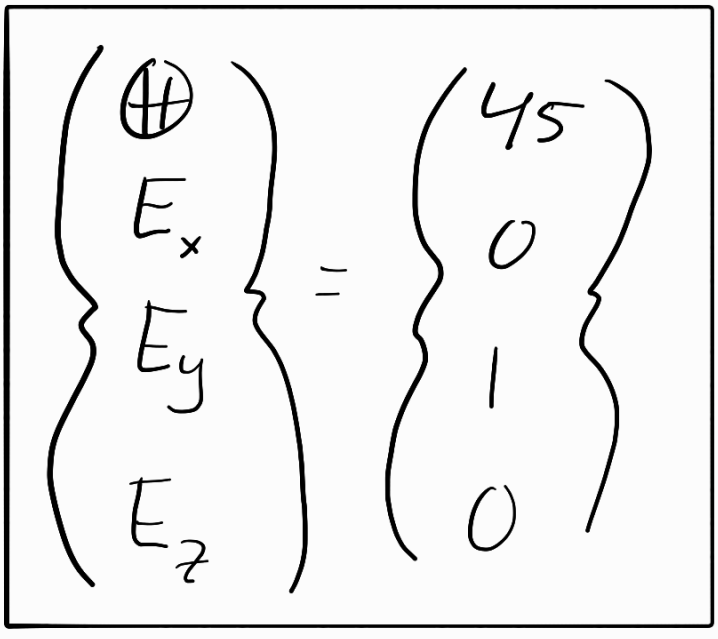
1.7.2 Find the Euler axis representation of the orientation given by the Euler angles phi=0, theta=45, psi=0

This is just a 45 degree rotation about the y-axis. Therefore, Ex=0, Ey=1, Ez=0, and Theta=45



1.7.3 Find the Euler axis representation of the orientation given by the Euler angles phi=0, theta=0, psi=45

This is just a 45 degree rotation about the z-axis. Therefore, Ex=0, Ey=0, Ez=1, and Theta=45