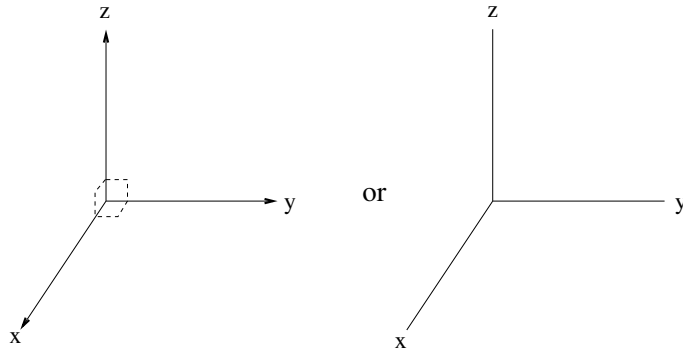


12.1: 3D Coordinate Systems

■ Three coordinate axes



- Coordinate axes are perpendicular
- Axes are oriented according to the right-hand rule

Fingers from x to y axis, then thumb points in direction of z -axis

■ Points (a, b, c) or $P(a, b, c)$

- **Meaning:** x coordinate has value a
 y coordinate has value b
 z coordinate has value c
- **Origin** $(0, 0, 0)$ is often denoted by O