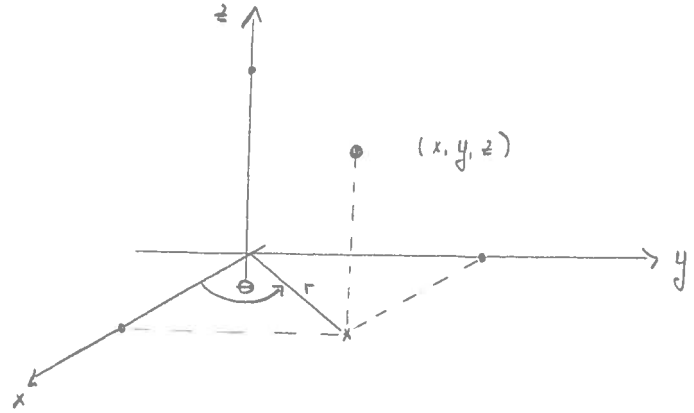
REPETITION LECTURE 2

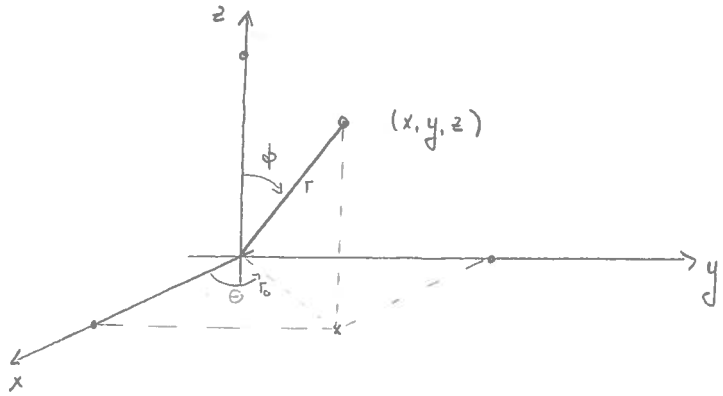
Cylindrical coordinates



The cylindrical coordinates are given by

$$x = r\cos(\theta) \quad , \quad y = r\sin(\theta) \quad \text{and} \quad z = z \qquad \left(r = \sqrt{x^2+y^2}\right)$$

Spherical coordinates



The spherical coordinates are given by

$$x = r\sin(\phi)\cos(\theta) \qquad y = r\sin(\phi)\sin(\theta) \qquad \text{and} \qquad z = r\cos(\phi)$$

$$\left(r = \sqrt{x^2+y^2+z^2}\right)$$