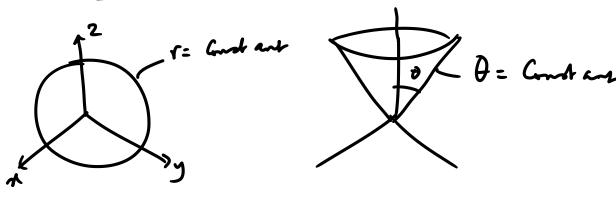
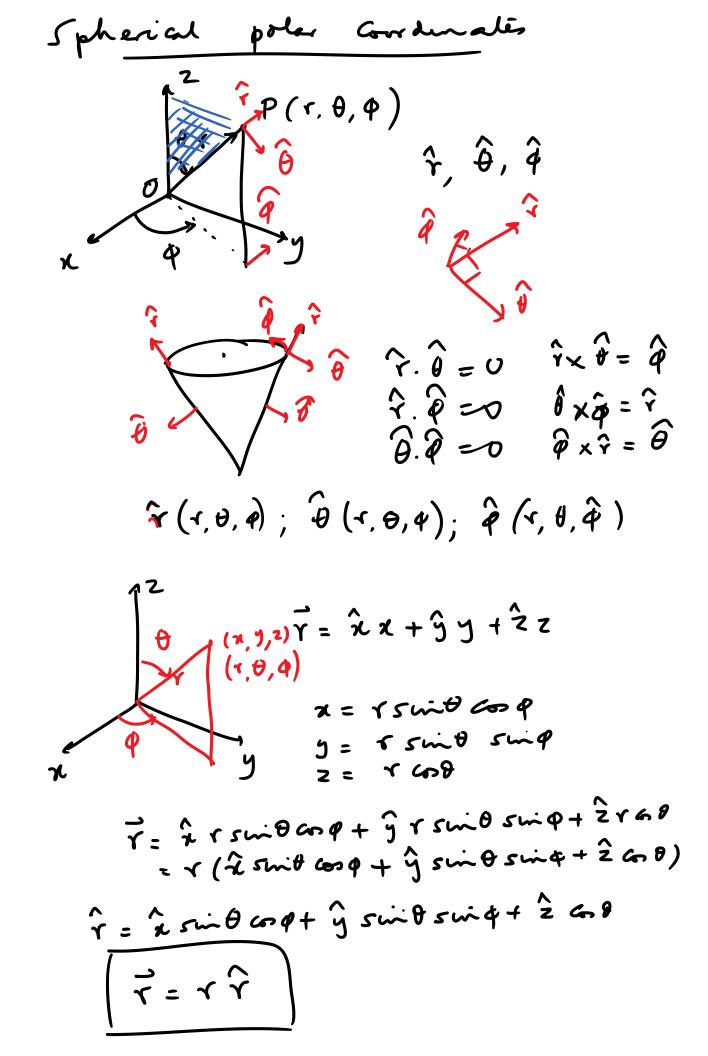


Spherical Polar Coordinate System



Q = Gretan

Cylindrial Coordinal System (r, p, z) 2 re Contact 2 = Contact 2 = Contact 2 = Contact



$$\vec{r} = x \hat{x} + y \hat{y} + z \hat{z}$$

$$\vec{r} = 4x \hat{x} + \hat{y} dy + \hat{z} dz$$

$$\vec{r} = 1 \hat{r}$$

$$d\vec{r} = 1 \hat{$$

= swit (-2 swip+ g G=4)

$$\frac{\partial^{2} \partial r}{\partial \phi} = -2 \sin \theta + \hat{y} \cos \theta$$

$$\frac{\partial^{2} r}{\partial \phi} = \sin \theta \hat{\phi}$$

$$\frac{\partial^{2} r}{\partial \phi} = \sin \theta \hat{\phi}$$

$$\frac{\partial^{2} r}{\partial \phi} = \sin \theta \hat{\phi}$$

$$= \hat{r} dr + r d\hat{r}$$

$$= \hat{r} dr + r d\theta \hat{\theta} + r \sin \theta d\phi \hat{\phi}$$

$$\frac{\partial^{2} r}{\partial \phi} = \sin \theta \hat{\phi}$$

$$\frac{\partial^{2} r}{\partial$$

rsin + dq