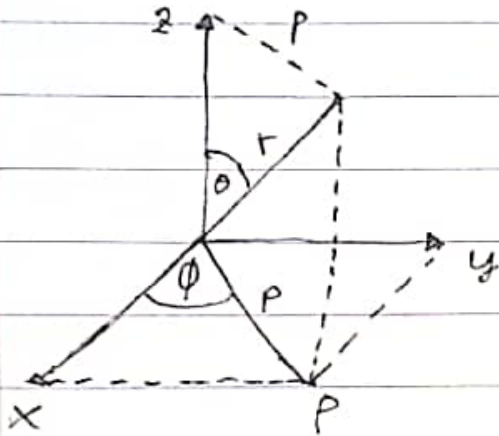


Nama : Ade Filla Vannessa

Npm : 2013022020

Koordinat Bola ($r \theta \phi$)



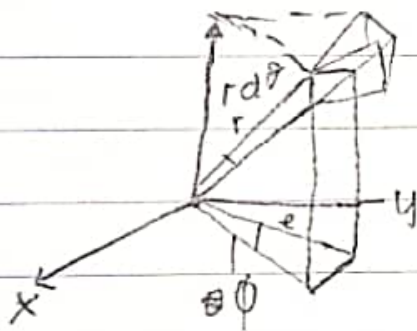
$$x = p \cos \phi$$

$$x = r \sin \theta \cos \phi$$

$$y = p \sin \phi$$

$$y = r \sin \theta \sin \phi$$

$$z = r \cos \theta$$

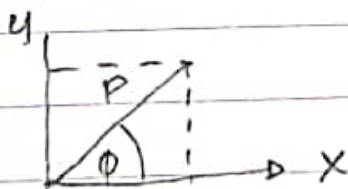


$$\frac{r \sin \theta \, d\theta \, d\phi}{p} \quad \sin \theta \, d\theta = \frac{dr}{r}$$

$$d\phi = \frac{x'}{p \sin \theta} \quad y' = r \, d\theta$$

$$x' = r \sin \theta \, d\phi$$

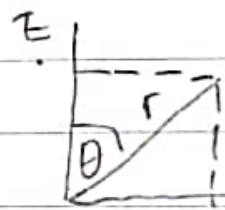
Analisis xy



$$\sin \phi = \frac{y}{p}, \quad y = p \sin \phi$$

$$x = p \cos \phi$$

analisis z e



$$z = r \cos \theta$$

$$p = r \sin \theta$$

