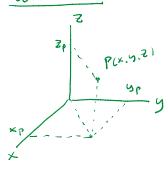
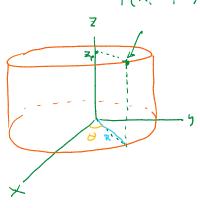
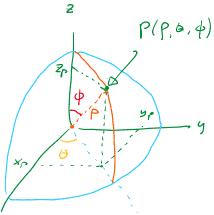
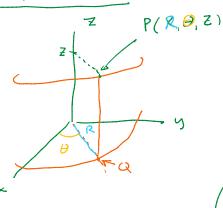
TW3_MTK_Week1_Les1 Tuesday, November 10, 2020 9:46 AM



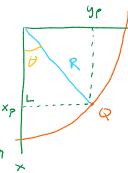
P(R, 0, 2)











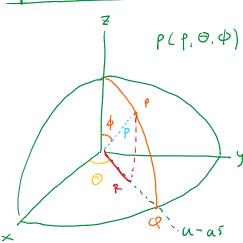
$$(R \Theta Z) = \left(4, \frac{\pi}{3}, -7\right)$$

$$X = R. \omega 1 \Theta = 4. \omega \frac{\pi}{3} = 4. \frac{1}{2} = 2$$

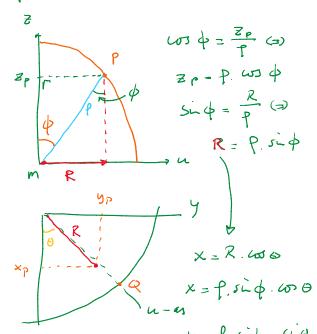
$$y = R sio = 4 si = \frac{\pi}{3} = 4 \frac{1}{2} \sqrt{3} = 2\sqrt{3}$$

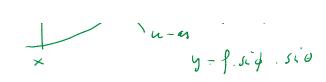
$$\begin{cases} R = \sqrt{x_{p}^{2}} + y_{p}^{2} \\ \theta = \operatorname{arctor}\left(\frac{y_{p}}{x_{p}}\right) \\ 2 = 2 \end{cases}$$

Spherical coordinates:



sphere = bol



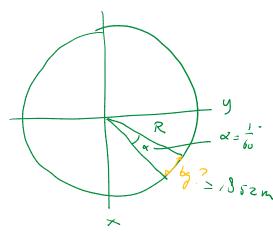


Navigotie

p=60

10-30A(y)

1 = longitude | legte le = latitude | breedk



boog = R. hoch [Radicla]

1/60 grand

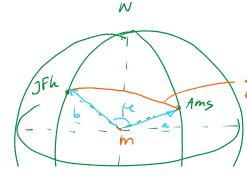
gegeven portie New Orleans 36 N/90 W XyZ? P= 4000 miles

 $X = P - SL \varphi \cdot (\omega S \Theta = 4000 \frac{1}{2} \sqrt{3} (-1) = -2000 \sqrt{3}$

 $Z = \int . \cos \phi = 4000, \frac{1}{2} = 2000.$

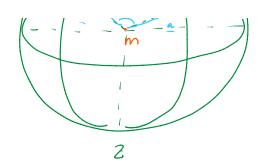
 20) =0 275° & evenent 3 C y 90° W y W X Y O E

NO: (x,y,Z) = (0, -2000 13, 2000)



Vale door IFh en Ams en middelpunt Warde

(a, 5) = 1 = 1.151. cos e



$$\frac{1}{a = \begin{pmatrix} x \\ y \\ z \end{pmatrix}}$$

$$\frac{1}{a + 1} = 6 \text{ on m}$$

$$\frac{1}{a + 1} = 6 \text{ on m}$$

$$\frac{1}{a + 1} = 6 \text{ on m}$$