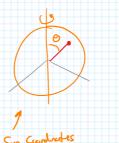
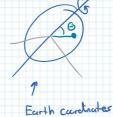


## Where is \$ 1 Theta?

Defined relative to the SUN

This might change for Earth if the spin of Earth is tilted relative to the spin of the spin.

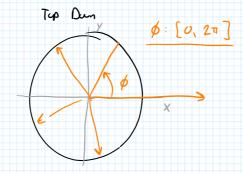


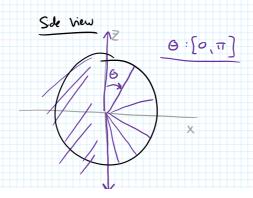


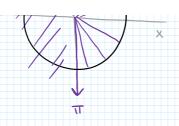
What changes with our cade

V<sub>x</sub> V<sub>y</sub> V<sub>z</sub> → V<sub>r</sub>, O, O

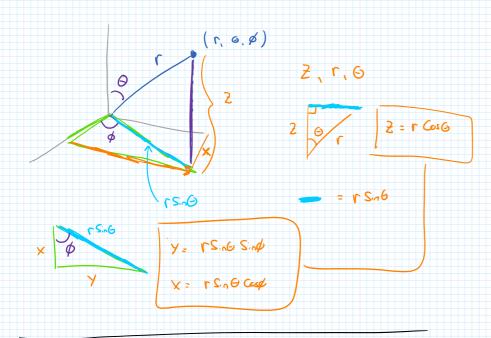
x, y, z → r, #, #







For each 
$$V_r$$
, assism  $\vec{V}_0 = (V_{Half}, \# \#)$ 



What we did today

Rede our initial conditions in spherical instead of Cartesian

[Easier for physics inhation get code working

Computed loss for each condition

Train our Machine learning alsorithm

Tested the accuracy

There will be some set of conditions

Direction + Speed

