# Equations:

## Orbital inclination:

is the orbital inclination

is the specific orbital angular momentum vector

is the vertical (z) component of the specific orbital angular momentum vector

## Specific orbital angular momentum vector:

is the specific orbital angular momentum vector

is the position vector

is the velocity vector

## Semi-major axis:

# Ion Engine Dynamics:

## Free body diagram:

A picture containing diagram

Description automatically generated

Forces:

* Central body gravity
* Thrust

## Polar representation

# IDK

## Rocket Equation

## Mass Flow

## Mass