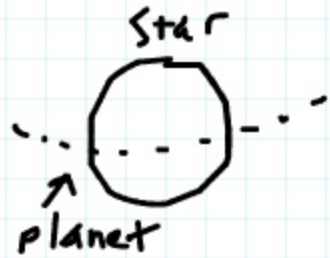


TESS

- follow-on to Kepler
- exoplanet finder



interesting orbit!

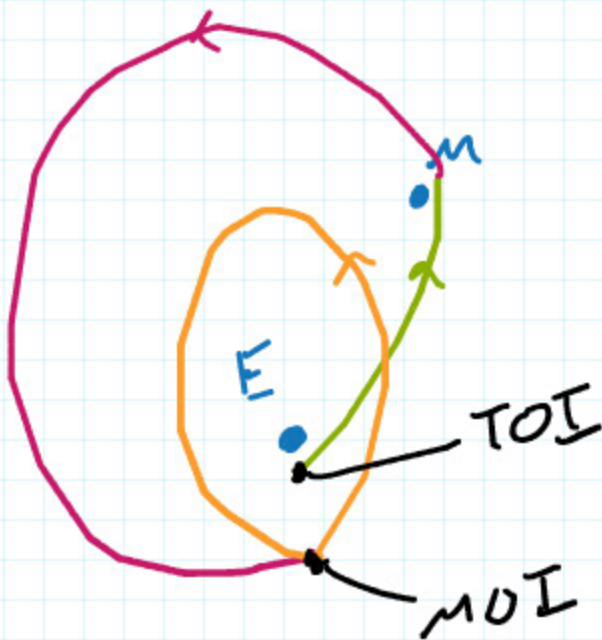
- 2:1 lunar resonant
- period half that of moon
- Earth-centered highly elliptical

why? extremely stable

- no station keeping necessary
- far from Earth -
quiet environment

orbit design

- start in LEO
- use lunar swingby to change inc.
- perigee burn to establish resonance



naive approach:
 - start @ TOI
 - design forward
 won't work!
 problem too sensitive

multiple-shooting

- divide problem into multiple segments
- patch together for final sol'n

