

**Problem Set #7**

**Assigned: October 25**

**Due: November 4**

Part I: Watch this Sixty Symbols video on interplanetary orbital transfers and then answer the following questions.

<https://www.youtube.com/watch?v=bNox3jUG31Y>

1. What did you find to be the most interesting part of this discussion?
2. What is syzgy?
3. What is unique about the Hohmann transfer?
4. What must one do differently to use the gravitational assist from a planet to accelerate or decelerate a spacecraft?

Part II: Complete the following problems in *Classical Mechanics by Fowles & Cassiday*.  
6.10, 6.11, 6.12, 6.13, 6.32