Astro 25 week 12b: Useful resources/Homework #14

Internet readings
Dark energy
http://en.wikipedia.org/wiki/Dark_energy

Smooth Tension and acceleration

Vacuum energy
http://teachingcompany.12.forumer.com/viewtopic.php?t=512&sid=d044a7cd75576deca7a3109f1b223ab5

Quintessence

The Cosmological Constant
http://relativity.livingreviews.org/Articles/lrr-2001-1/

Video
Sean Carroll discusses the dark sector
http://www.youtube.com/watch?v=exFfUsDgnaU&list=PLPIYPyWdOTSmHhj4PQ5ET6ENy-XW_5U9b

Homework #14 (5 pts):
Write a short essay (300+ words) summarizing our knowledge of dark energy. Incorporate, where appropriate, definitions/explanations of all the following key words. Provide at least two references you used in your work.

- Dark sector
- Dark energy smoothness
- Flatness problem
- Vacuum energy
- Accelerating universe
- Dark energy persistence
- Concordance cosmology
- Cosmological constant
- Quintessence