Problem Set #4

Due Friday, March 27 by 5pm to Dickinson 104

Unless otherwise indicated, all problems come from "The Cosmic Perspective," 8e

1. Problem 14.42 *The End of Fusion I*
2. Problem 14.50 *The Lifetime of the Sun*
3. Problem 14.55 *Solar Mass Loss (Hint: Take a look at Mathematical Insight 14.1 for some useful information to help solve this problem)*
4. Problem **15**.45 *An Expanding Star* (Make sure you give a *quantitative* answer here. Saying it gets higher or lower is incomplete; you need to say by what factor it gets higher or lower)