PHYS-333: Problem set #3

Please write neatly and show your work. Answers correct to two decimal places will receive full credit, so try to compute by hand without a calculator. Big magnitude answers should be given in scientific notation. At top near your own name, please list names of all those you worked with on the problem set. Finally, PLEASE put a circle or box around each final answer. If I can’t find your answer amid all the work, I won’t be able to give you credit for it!

1. Blowing up a planet Ex. 7.5
2. Stellar properties and lifetime Ex. 8.3
3. Absorption by coal dust. Ex. 12.4
4. Absorption by interstellar dust. Ex. 12.5
5. Scale height in earth’s atmosphere Ex. 15.4