

## Assignment 4 — due Thursday March 31<sup>st</sup> [*Revision* : 1.1]

### Part 1

Answer the following questions from Chapter 3 of *Stellar Interiors*:

- (i). 3.1 — you'll need a computer for this one
- (ii). 3.7 — this gives an idea of what happens to the ideal gas law as degeneracy first begins to kick in

### Part 2

Answer the following questions from Chapter 4 of *Stellar Interiors*:

- (i). 4.6 — this is a follow-on to 3.1
- (ii). 4.10 — this will require some background reading about the Eddington-gray atmosphere (§4.3)
- (iii). 4.11 — a nice little result, which intuition suggests