PHY100 — Problem Set #8

Problems from Hobson:

(C.Ex.=conceptual exercise; R.Q.=review question; P.=problem)

1) Chapter 16, C.Ex. 2, page 406
2) Chapter 16, C.Ex. 7, page 406
3) Chapter 16, C.Ex. 12, page 406
4) Chapter 16, C.Ex. 20, page 406
5) Chapter 16, C.Ex. 24, page 406
6) Chapter 16, C.Ex. 25, page 406
7) Chapter 16, C.Ex. 29, page 406
8) Chapter 16, C.Ex. 32, page 406
9) Chapter 16, C.Ex. 34, page 406
10) Chapter 16, P. 1, page 407
11) Chapter 5, C.Ex. 14, page 111
12) Chapter 5, C.Ex. 17, page 111
13) Calculate your weight on the surface of a neutron star. Assume the mass of the neutron star is 8 times that of the Sun (2×10^{30} kg) and the radius is 10 kilometers.