

Physics 263: Problem Set #1

These problems are due at the end of the day on Friday, April 3

1. Shankar, problem 4.2.1 pg. 77.
2. Shankar, problem 4.2.3 pg. 78.
3. Shankar, problem 4.2.4 pg. 79.
4. Shankar, problem 4.3.1 pg. 81. Do only parts (i) to (iv).
5. Morin 11.2 (Explaining time dilation) p. 549
6. Morin 11.3 (Explaining length contraction) p. 550
7. Morin 11.4 (A passing stick) p. 550
8. Morin 11.30 (A passing train) p. 556
9. Morin 11.32 (Walking on a train) p. 556
10. Morin 11.35 (Photon on a train) p. 556
11. (BONUS) Morin 11.37 (Seeing the light) p. 557