

Physics 263: Problem Set #3

These problems are due at the end of the day on Friday, April 17.

1. There will be a tutorial worksheet to hand in.
2. Morin 11.40 (People clapping) p. 558
3. Morin 11.5 (Rotated square) p. 550
4. Morin 11.45 (Through the hole?) p. 559
5. Morin 12.2 (Colliding photons) p. 611
6. Morin 12.20 (Energy of two masses) p. 615
7. Morin 12.22 (CM frame) p. 615
8. (BONUS) Morin 11.58 (Time dilation and Lv/c^2) p. 562.
9. Shankar, problem 4.3.4 (pg. 85) and 4.3.5 (pg. 86)
10. Shankar, problems 5.2.2 and 5.2.3 pg. 93.