

PRACTICE PROBLEMS FOR MIDTERM 2 - PH111
ANSWERS

3. (a) 1.7 [N]

(b) 0.7 [m/s²]

(c) -1.9 [J]

(d) No.

4. (a) -19.6 [J]

(b) approximately 0.

5. (a) 0.5 [m/s]

(b) $v_1=0$; $v_2=1$ [m/s]; $v_{COM}=0.5$ [m/s].

6. (a) 14.7 [N]

(b) 3.4 [m/s²]

(c) 9.8 [J].

Problems 5.50, 5.51, 10.6, 10.39 and 10.51: see special assignement with solutions from Wiley.