

**ENGR 222 Dynamics**  
**Problem Set #3**

Meriam and Kraige, Engineering Mechanics-Dynamics (Eighth Edition)

Material Covered: Chapter 3/1 to 3/7

Topics Covered:

Newton's laws

Galilean invariance

work

power

kinetic energy

potential energy

mechanical efficiency

energy conservation

1. Meriam and Kraige (8th ed.), problem 3/32
2. Meriam and Kraige (8th ed.), problem 3/46.
3. Meriam and Kraige (8th ed.), problem 3/81.
4. Meriam and Kraige (8th ed.), problem 3/96.
5. Meriam and Kraige (8th ed.), problem 3/148.
6. Meriam and Kraige (8th ed.), problem 3/165.