6.7: Physical Applications

Learning Objectives. Upon successful completion of Section 6.7, you will be able to. . .

- Find the mass of a thin bar with a given density function.

- Find the work done given constant force.

- Find the work done given a variable force function $f(x)$.

- Solve work problems involving springs and Hooke's law.

- Solve work problems involving lifting ropes/chains/cables.

- Solve work problems involving pumping water.

- Solve applications involving pressure.

- Solve applications involving hydrostatic force.

Title