



Draw the FBD of barbells



Figure 2.14 Problem 2.6. Image courtesy of Shutterstock.

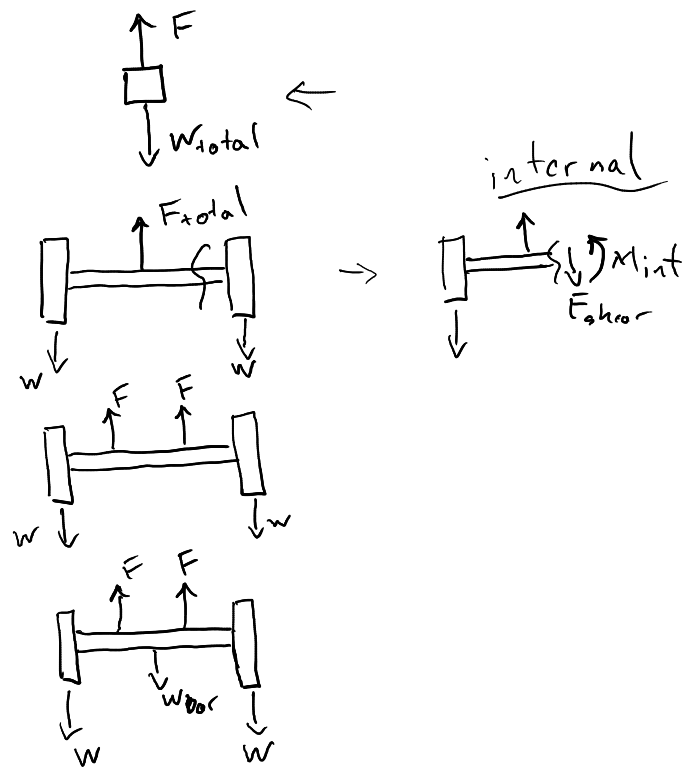
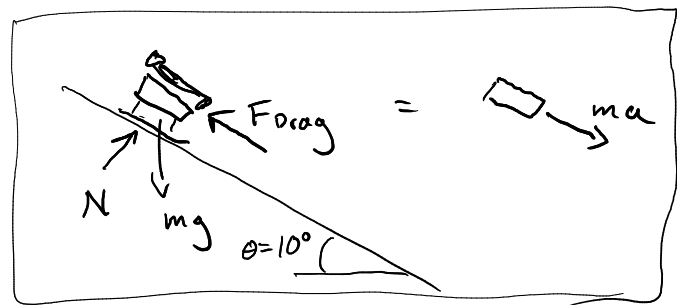
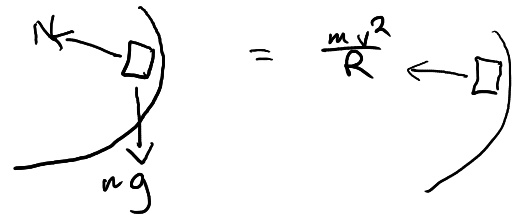


Figure 2.13 Problem 2.5. Image courtesy of Shutterstock.



eom

$$mg \cos \frac{\pi}{18} - F_{\text{drag}} = ma$$

$$g \cos \frac{\pi}{18} - \frac{1}{2} C_D A \rho v^2 = a$$