

PROBLEM 1.10

Using magnitudes,

$$|F| = m|a|, |a| = 60g$$

$$= m(60g) = 60mg$$

$$= 60(50\text{ lb})(32.2 \frac{\text{ft}}{\text{s}^2})$$

$$\left| \frac{1\text{ lbf}}{32.2 \text{ lb} \cdot \text{ft}/\text{s}^2} \right| = 3000 \text{ lbf} \quad \leftarrow$$

(rounded)