

Phys III
Homework

4-29



Given
 $m = 930 \text{ kg}$
 $a = 2.3 \text{ m/s}^2$
 $F_m = 3.9 \text{ kN}$

$$\sum \vec{F} = m\vec{a}$$

$$F_m - F_w = ma \Rightarrow F_w = F_m - ma$$

$$F_w = 3.9 \times 10^4 - (930)(2.3)$$

$$F_w = 3.69 \times 10^4$$