

P #1

Ch 4 - pg 106

a) $m = 6.0 \text{ kg}$
 $a = 2.0 \text{ m/s}^2$
 $F = ?$

$$F_{\text{net}} = m \cdot a$$
$$= (6.0 \text{ kg}) \cdot (2.0 \text{ m/s}^2)$$

$$F_{\text{net}} = 12 \text{ N}$$

b) $F_{\text{net}} = 12.0 \text{ N}$
 $m = 4.0 \text{ kg}$
 $a = ?$

$$F_{\text{net}} = m \cdot a$$
$$(12.0 \text{ N}) = (4.0 \text{ kg}) \cdot a$$

$$a = 3.0 \text{ m/s}^2$$