

## Section 5.1: Momentum and Impulse

### Tutorial 1 Practice, page 223

1. **Given:**  $m = 160 \text{ g} = 0.16 \text{ kg}$ ;  $\vec{v} = 140 \text{ m/s [E]}$

**Required:**  $\vec{p}$ ;  $E_k$

**Analysis:**  $\vec{p} = m\vec{v}$ ;  $E_k = \frac{1}{2}mv^2$

**Solution:**  $\vec{p} = m\vec{v}$   
 $= (0.16 \text{ kg})(40.0 \text{ m/s [E]})$   
 $\vec{p} = 6.4 \text{ kg} \cdot \text{m/s [E]}$

$$E_k = \frac{1}{2}mv^2$$
$$= \frac{1}{2}(0.16 \text{ kg})(40.0 \text{ m/s})^2$$

$$E_k = 130 \text{ J}$$

**Statement:** The momentum of the puck is  $6.4 \text{ kg} \cdot \text{m/s [E]}$ , and the kinetic energy is  $130 \text{ J}$ .

2. **Given:**  $m_1 = 6.2 \text{ kg}$ ;  $v_1 = 1.6 \text{ m/s [E]}$ ;  $m_2 = 160 \text{ g} = 0.16 \text{ kg}$ ;  $v_2 = 40.0 \text{ m/s [E]}$

**Required:**  $\vec{p}_2 - \vec{p}_1$

**Analysis:**  $\vec{p} = m\vec{v}$

**Solution:**  $\vec{p}_1 - \vec{p}_2 = m_1\vec{v}_1 - m_2\vec{v}_2$   
 $= (6.2 \text{ kg})(1.6 \text{ m/s [E]}) - (0.16 \text{ kg})(40.0 \text{ m/s [E]})$   
 $\vec{p}_1 - \vec{p}_2 = 3.5 \text{ kg} \cdot \text{m/s [E]}$

**Statement:** The difference in the momenta is  $3.5 \text{ kg} \cdot \text{m/s [E]}$ .

### Tutorial 2 Practice, page 226

1. (a) **Given:**  $\vec{F} = 250 \text{ N [forward]}$ ;  $t = 0.0030 \text{ s}$

**Required:**  $\Delta\vec{p}$

**Analysis:**  $\Delta\vec{p} = \vec{F}\Delta t$

**Solution:**  $\Delta\vec{p} = \vec{F}\Delta t$   
 $= (250 \text{ N [forward]})(0.0030 \text{ s})$   
 $\Delta\vec{p} = 0.75 \text{ N} \cdot \text{s [forward]}$

**Statement:** The impulse imparted by the hockey stick is  $0.75 \text{ N} \cdot \text{s [forward]}$ .

(b) **Given:**  $\vec{F}\Delta t = 0.75 \text{ N} \cdot \text{s}$ ;  $m = 180 \text{ g} = 0.18 \text{ kg}$ ;  $\vec{v}_i = 0$

**Required:**  $\vec{v}_f$

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