

MOMENTUM:

$$\vec{p} = m \cdot \vec{v} \quad \left[\text{kg} \cdot \frac{\text{m}}{\text{s}} \right]$$

Jan 28-7:51 AM

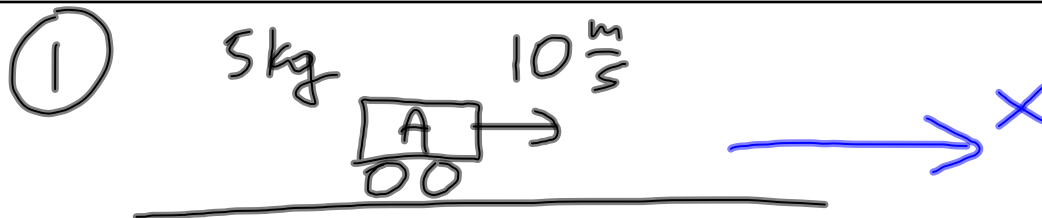
Conservation of momentum.

The momentum of an isolated system is conserved.

$$P_i = P_f$$

$$m_1 v_{i_1} + m_2 v_{i_2} + \dots = m_1 v_{f_1} + m_2 v_{f_2} + \dots$$

Jan 28-8:03 AM

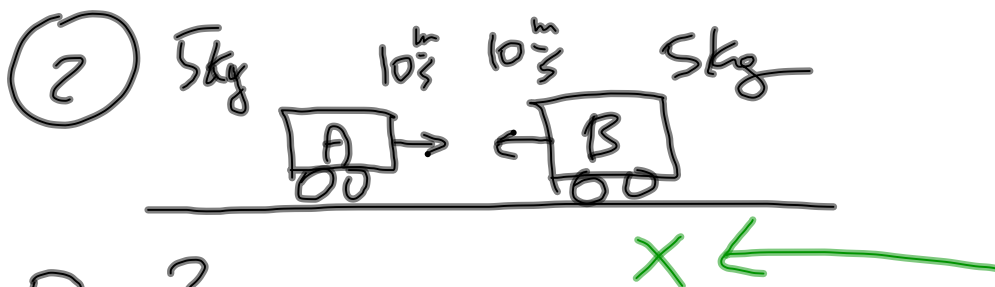


$P_A = ?$

$$P_A = (5)(10)$$

$$P_A = 50 \text{ kg} \cdot \frac{m}{s}$$

Jan 28-8:10 AM



$P_{A+B} = ?$

$$P_{A+B} = 0$$

HW # 5.4.1

Jan 28-8:15 AM