

Chapter C5: Conservation of Momentum Practice

Physics I

College of the Atlantic

Two different pucks are sliding along a sheet of smooth ice. One puck is heading due north at 3 m/s, the other due west at 5 m/s. The westward-moving puck is 2 times as massive as the northward-moving puck. The pucks collide and stick together. What is their velocity after this collision? Give both the components and the magnitude and direction of the velocity.