

Physics 10154 - Quiz 10D

A mass ($m_1 = 1.20$ kg) is initially at rest against a compressed spring ($k_s = 327$ N/m) that is compressed by 14.5 cm from its equilibrium position on a frictionless, horizontal surface. The system is released from rest, and the mass (m_1) goes on to have an elastic collision with mass m_2 ($m_2 = 2.40$ kg).

- What is the final speed of m_2 after the collision?
- What is the final speed of m_1 after the collision?
- To what maximum compression does the spring reach after m_1 rebounds from the collision?

