4.34 A 1.0 kg standard cart A collides with a 0.10 kg cart B. The *x* component of the velocity of cart A is 0.60 m/s before the collision and 0.50 m/s after the collision. Cart B is initially traveling toward cart A at 0.40 m/s, and after the collision the *x* component of its velocity is 0.60 m/s. What are (a) the *x* component of the change in the momentum of A, (b) the *x* component of the change in the momentum of B, and (c) the sum of these two *x* components of the changes in momentum?