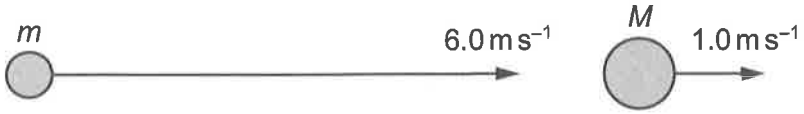
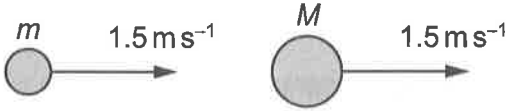
16 A ball of mass m, travelling at $6.0\,m\,s^{-1}$, collides elastically with a ball of mass M travelling at $1.0\,m\,s^{-1}$. Mass m is smaller than mass M.



Which diagram represents the velocities of the two balls after the collision?

A

B



C

D

17 The force applied to a wire is increased from zero and then decreased to zero. The variation of