

1. A railway truck A of mass m and a second railway truck B of mass $4m$ are moving in opposite directions on a smooth straight horizontal track when they collide directly. Immediately before the collision the speed of truck A is $3u$ and the speed of truck B is $2u$. In the collision the trucks join together. Modelling the trucks as particles, find

(a) the speed of A immediately after the collision,

(3)

(b) the direction of motion of A immediately after the collision,

(1)

(c) the magnitude of the impulse exerted by A on B in the collision.

(3)



a)

Cons. of momentum:

$$\rightarrow 3mu - 2u(4m) = 5mv$$

$$v = -u$$

\therefore Speed of A is u

b)

A moves in the opposite direction to its initial motion

c)

$$\rightarrow I = mv - mu$$

$$= 4m(-u - (-2u))$$

$$= 4mu$$

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