

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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