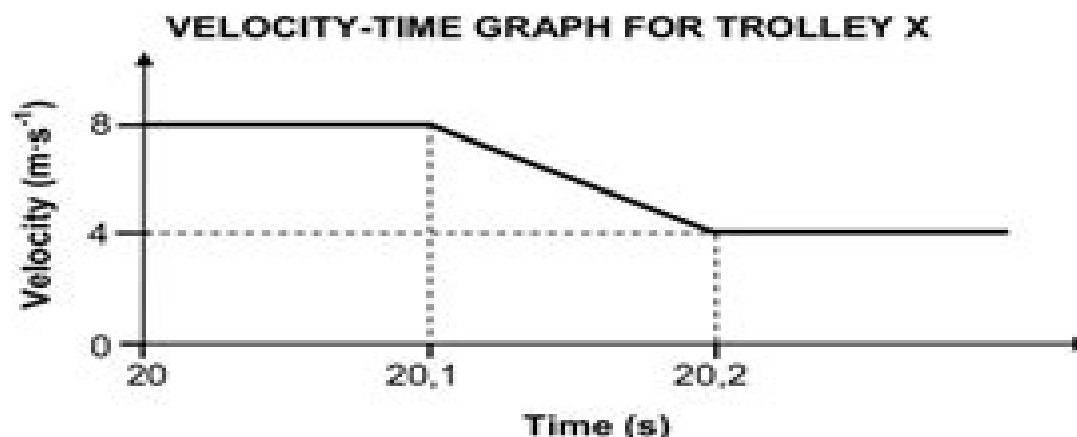


QUESTION 4 (Start on a new page.)

Trolley X of mass 1,2 kg travels at $8 \text{ m}\cdot\text{s}^{-1}$ east and collides with trolley Y of mass 0,5 kg which is initially at rest.

Ignore all frictional effects.

The velocity-time graph below shows the velocity of trolley X before, during and after the collision with trolley Y.



- 4.1 State the *principle of conservation of linear momentum*. (2)
- 4.2 Calculate the magnitude of the:
- 4.2.1 Velocity of trolley Y immediately after the collision (4)
- 4.2.2 Average net force that trolley X exerts on trolley Y during the collision (3)
- 4.3 Is the collision ELASTIC or INELASTIC?

Explain the answer by means of suitable calculations.

(5)
[14]

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