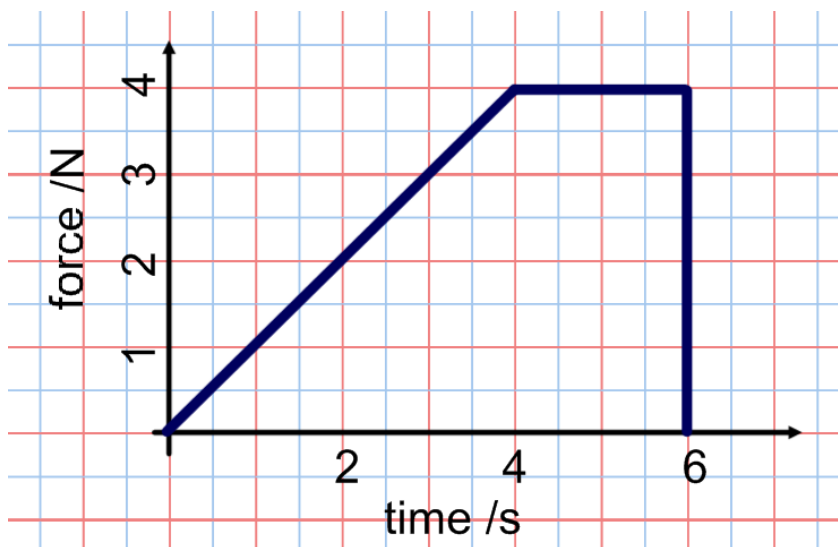


# Impulse Quiz

---

1. Define impulse.
2. What are the units of impulse?
3. A car of mass 1500kg is travelling at 12m/s. It hits a tree and comes to a stop. What impulse does the car receive from the tree?
4. What extra information would be needed to calculate the force of the tree on the car?
5. This graph shows the resultant force on a radio controlled car. Its mass is 1.2kg and it is initially at rest.



Calculate:

- a) The impulse supplied to the radio controlled car
- b) The velocity of the car after 6 seconds

Sketch a velocity-time graph for the car on a piece of graph paper (hard...)