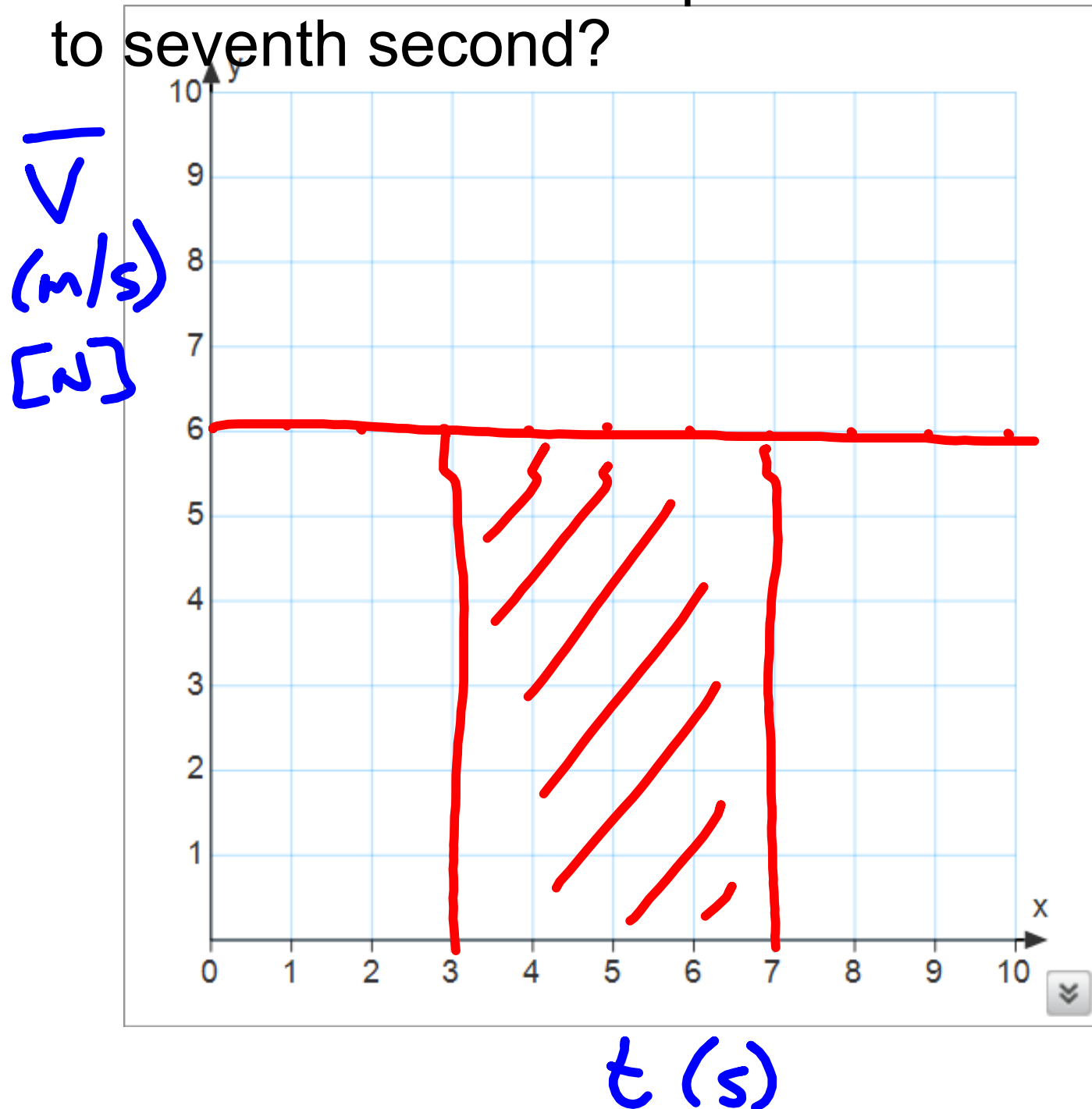


Velocity Time Graphs and Displacement

A toy car moves at a constant velocity of 6 m/s [N] for 10 seconds. Find the displacement of the car from the third to seventh second?



$$\begin{aligned} \text{Area} &= v t \\ &= 6 \times 4 \\ &= 24 \text{ m [N]} \end{aligned}$$

The area under a \bar{v} - t graph equals displacement.