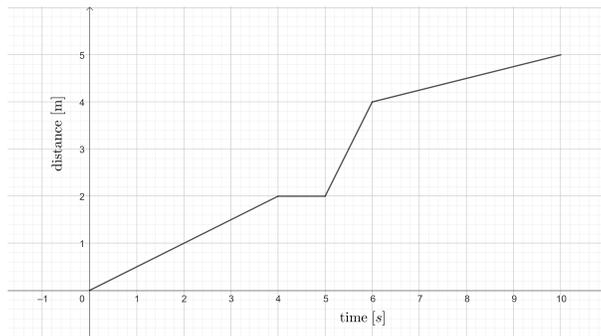


1. [2 points]
An object started its motion at 8:55 pm and finished at 3:10 am the following day. It travelled a distance of 250 kilometres. Find its average speed in kilometres per hour.

2. [5 points]
The following graph shows distance d (in metres) travelled by an object at time t (in seconds).

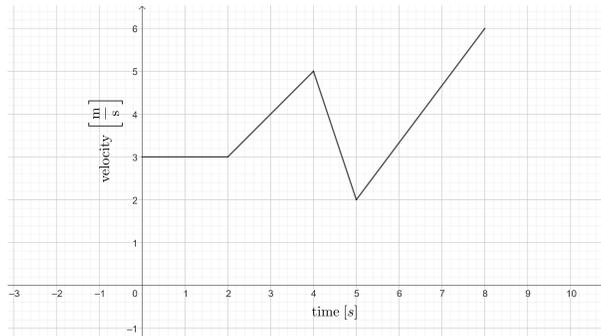


- Find the distance travelled by the object at $t = 4.5$.
- Find the speed of the object at $t = 1$.
- At what times was the object moving the fastest?
- Find the average speed of the object for the whole journey.
- Find the average speed of the object, while it was moving.

3.

[5 points]

The following graph shows velocity v (in metres per second) of an object at time t (in seconds).



- Write down the initial velocity of the object (at $t = 0$).
- Find the acceleration of the object at $t = 1$.
- At what times was the object at rest?
- Find the total distance travelled by the object.
- Find the distance travelled by the object while it was accelerating (its velocity was increasing).