

Find the area under a straight line

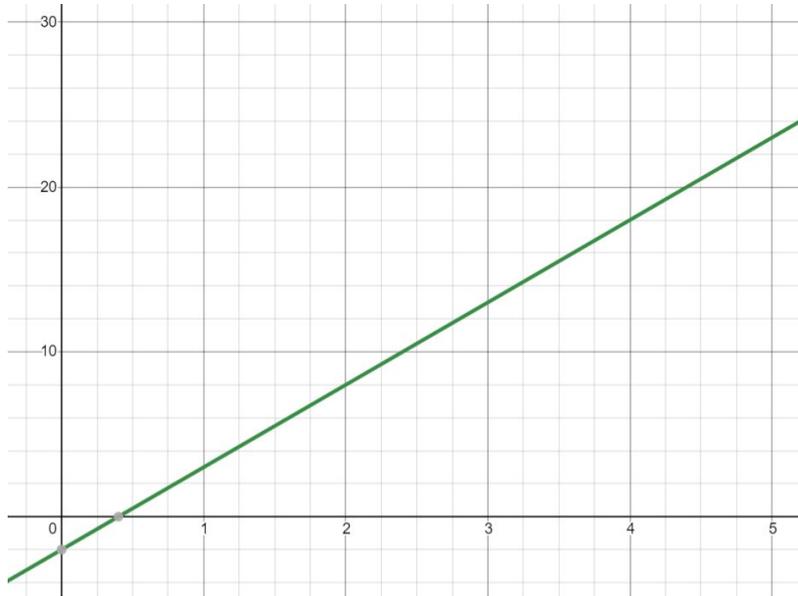
Maths

Mr Clasper

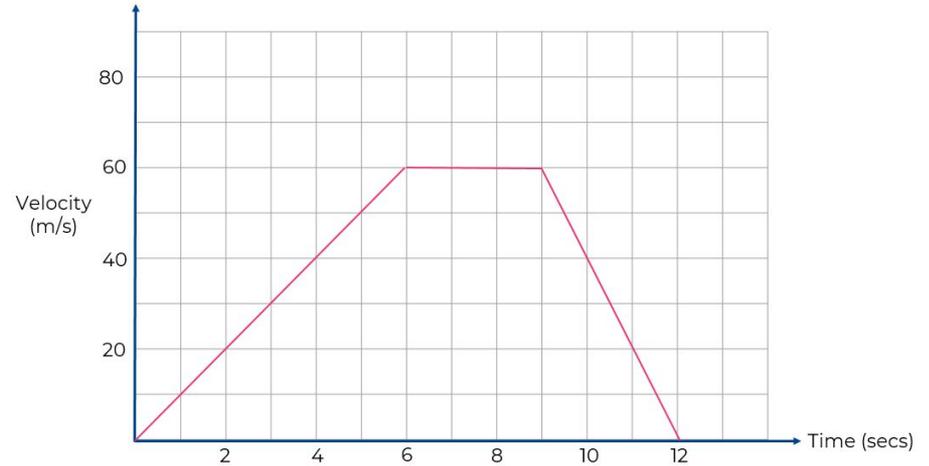


Find the area under a straight line

1. Work out the area under the straight line between $x = 1$ and $x = 5$?



2. Here is the journey of a sports car.



How far does the car travel in 12 seconds?



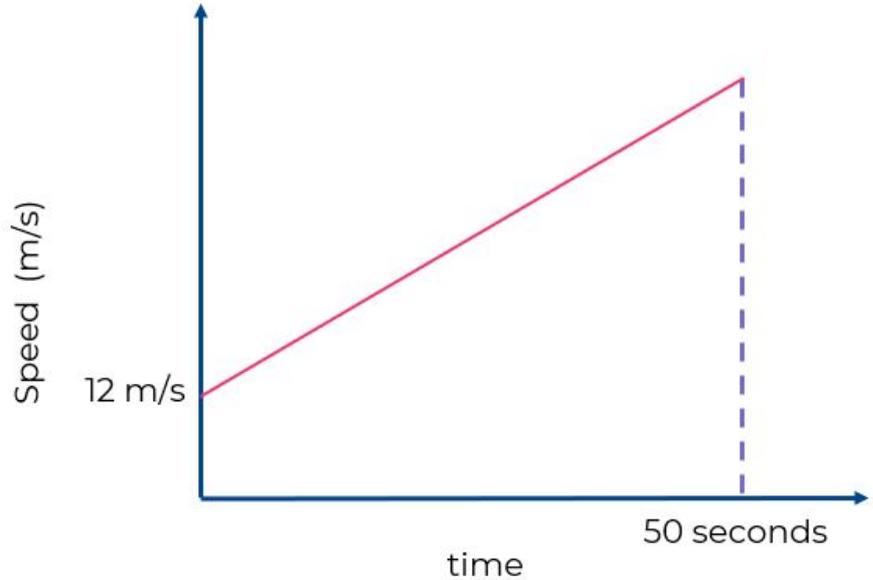
Find the area under a straight line

3. The graph opposite shows the journey of a train as it accelerates from a speed of 12 m/s.

The acceleration is constant for 50 seconds.

The total distance travelled is 1.3 km.

What is the final speed of the train?

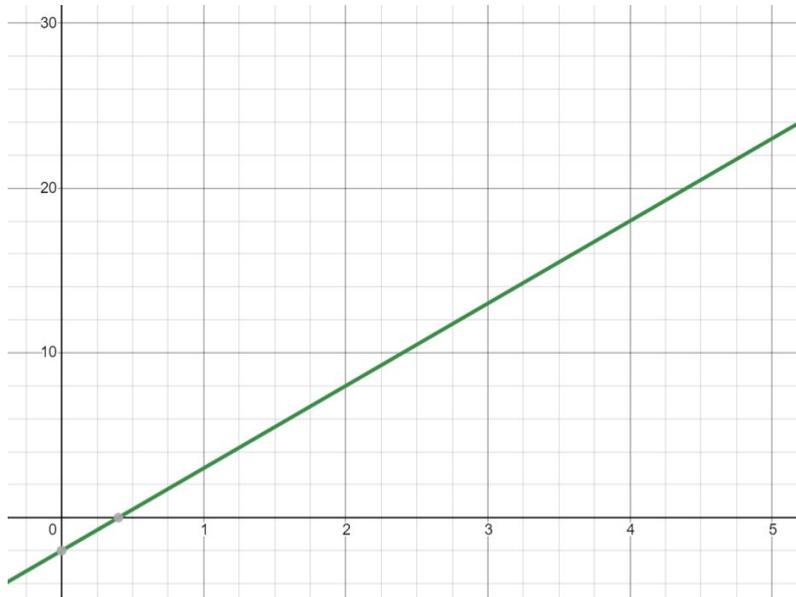


Answers



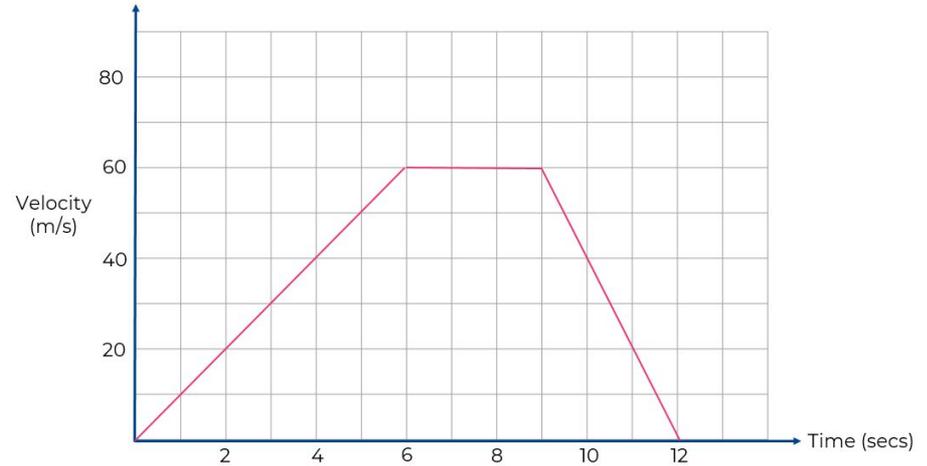
Find the area under a straight line

1. Work out the area under the straight line between $x = 1$ and $x = 5$?



52 units²

2. Here is the journey of a sports car.



How far does the car travel in 12 seconds?

450 metres



Find the area under a straight line

3. The graph opposite shows the journey of a train as it accelerates from a speed of 12 m/s.

The acceleration is constant for 50 seconds.

The total distance travelled is 1.3 km.

What is the final speed of the train?

40 m/s

