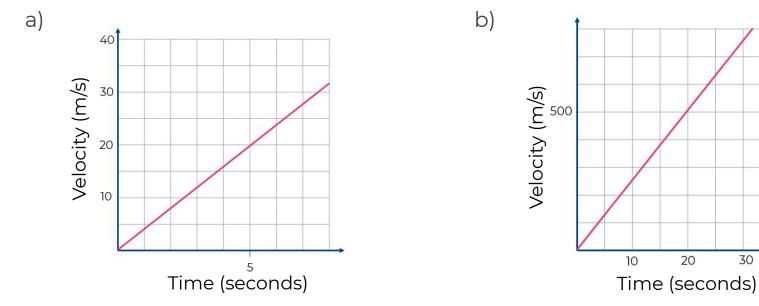
Maths

Mr Clasper

1. Work out the acceleration for each of the following velocity-time graphs.



30

80 Velocity (m/s) 60 40 20 10 12 2 4 6 8 Time (seconds) a) What is the acceleration between 0 and 6 seconds?

2. Here is the journey of a sports car.

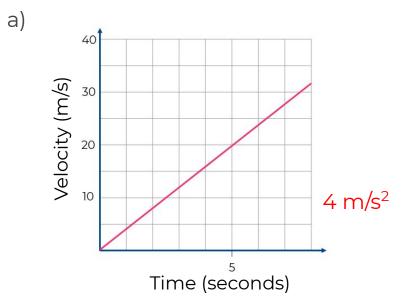
- b) What is the deceleration between 9 and 12 seconds?
- c) Where is the acceleration 0?

d) How do you know the acceleration between 0 and 6 seconds is constant?

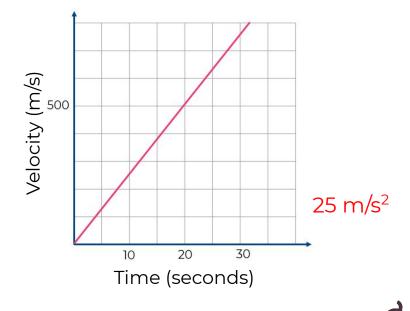
 A car travels in a straight line. The car is travelling at 10 m/s. The car accelerates at 3 m/s² Draw a graph to show the first 5 seconds of the journey.

Answers

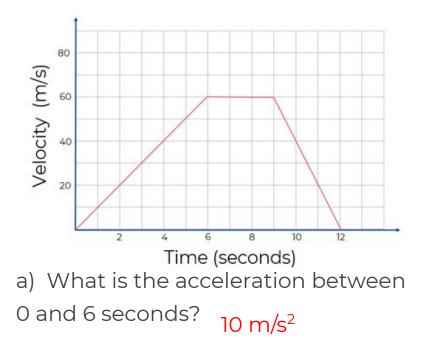
1. Work out the acceleration for eachbof the following velocity-time graphs.



b)



2. Here is the journey of a sports car.



b) What is the deceleration between 9 and 12 seconds? 20 m/s²

c) Where is the acceleration 0? Between 6 and 9 seconds

d) How do you know the acceleration between 0 and 6 seconds is constant? Straight line

