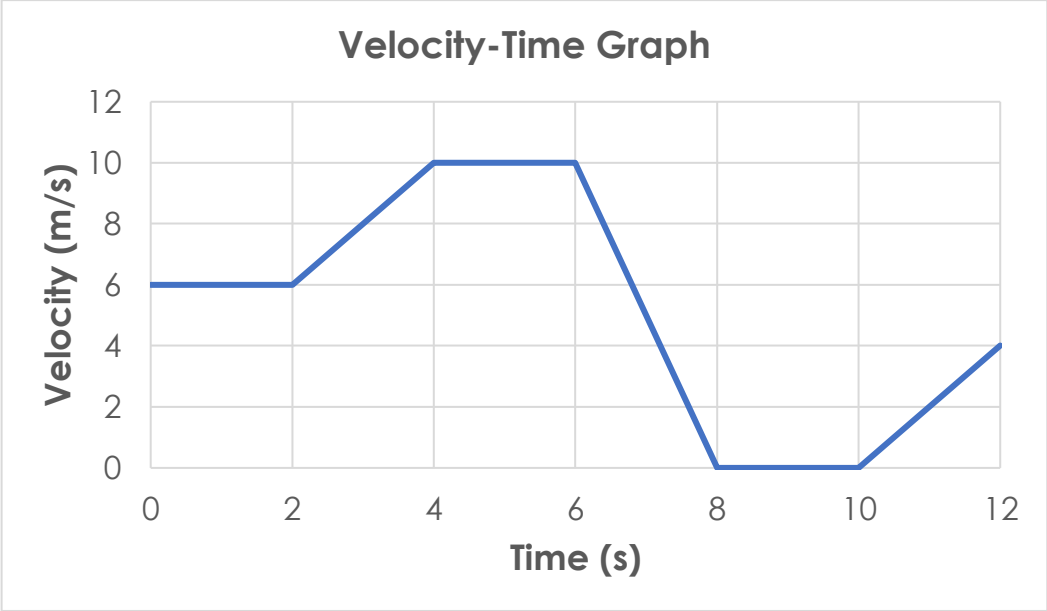
Velocity-Time Graphs Further

1. Use the following velocity-time graph to answer the questions.

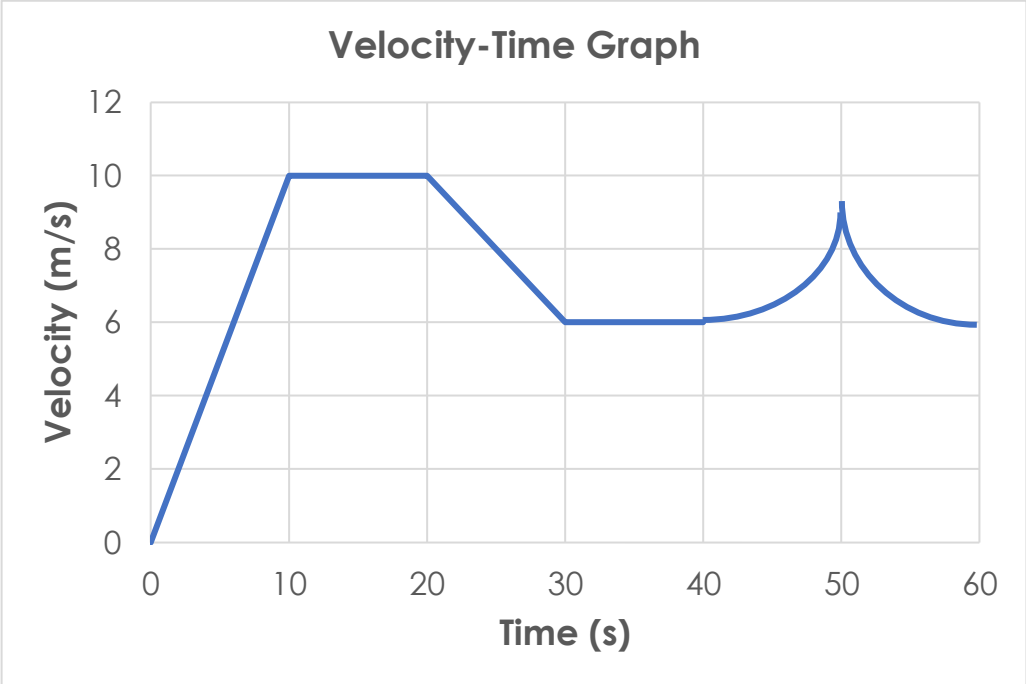


a. Describe the motion of this object.

b. Calculate the total distance travelled by this object.

c. Calculate any values for acceleration for this graph.

2. Use the following velocity-time graph to answer the questions.



a. Describe the motion of this object.

b. Calculate the distance travelled by this object in the first 40 seconds.

c. Calculate:

i. The acceleration between 0 and 10 seconds

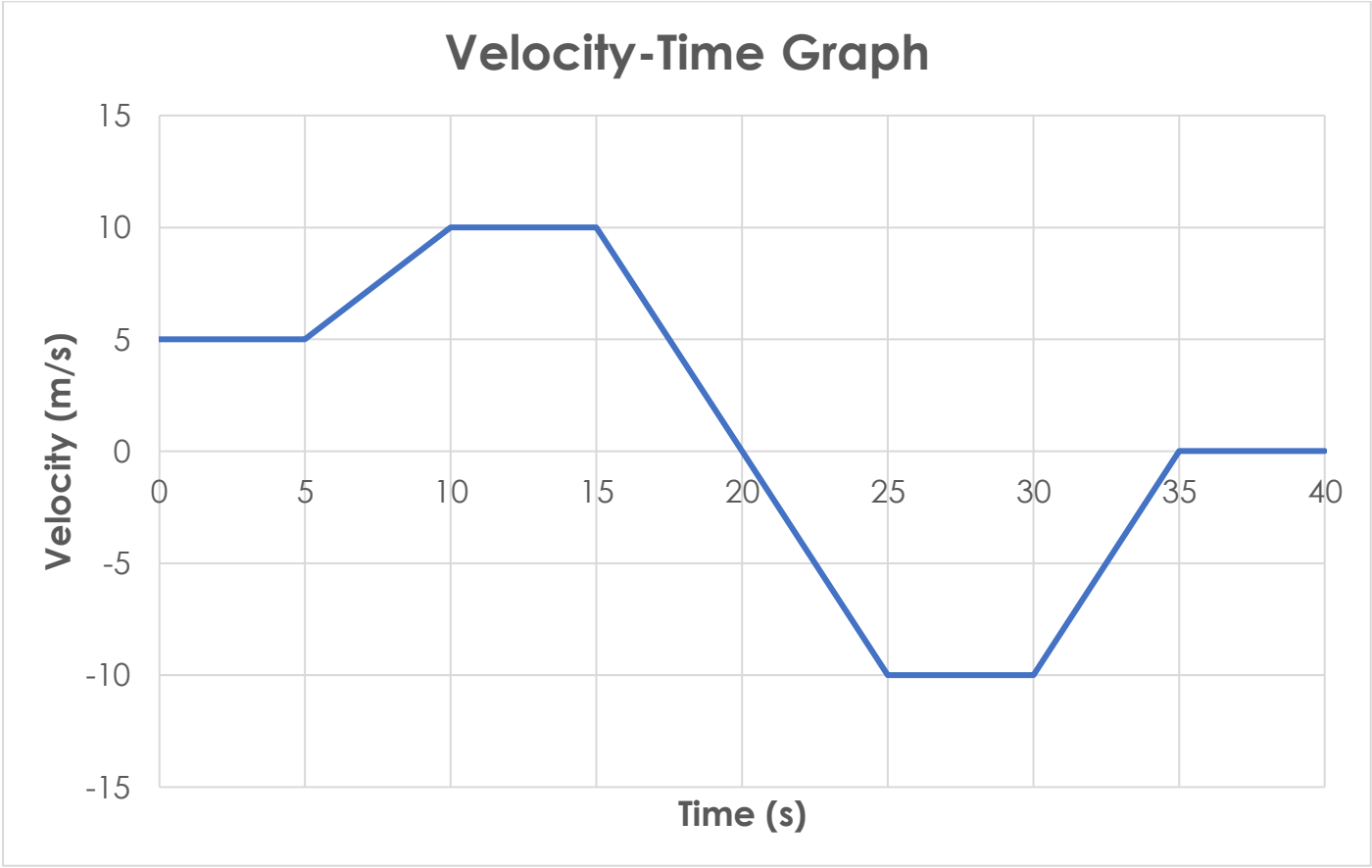
ii. The acceleration between 20 and 30 seconds

Stretch:

d. Describe how you could calculate the acceleration of this object after 45 seconds.

e. Use your method from the previous question to calculate the acceleration of this object after 45 seconds.

3. Use the following velocity-time graph to answer the questions.



a. Describe the motion of this object.

b. Calculate the total distance travelled by this object.

c. Calculate the final displacement of the object.

d. Calculate:
   i. The acceleration between 5 and 10 seconds

   ii. The acceleration between 15 and 20 seconds

   iii. The acceleration between 20 and 25 seconds

   iv. The acceleration between 30 and 35 seconds