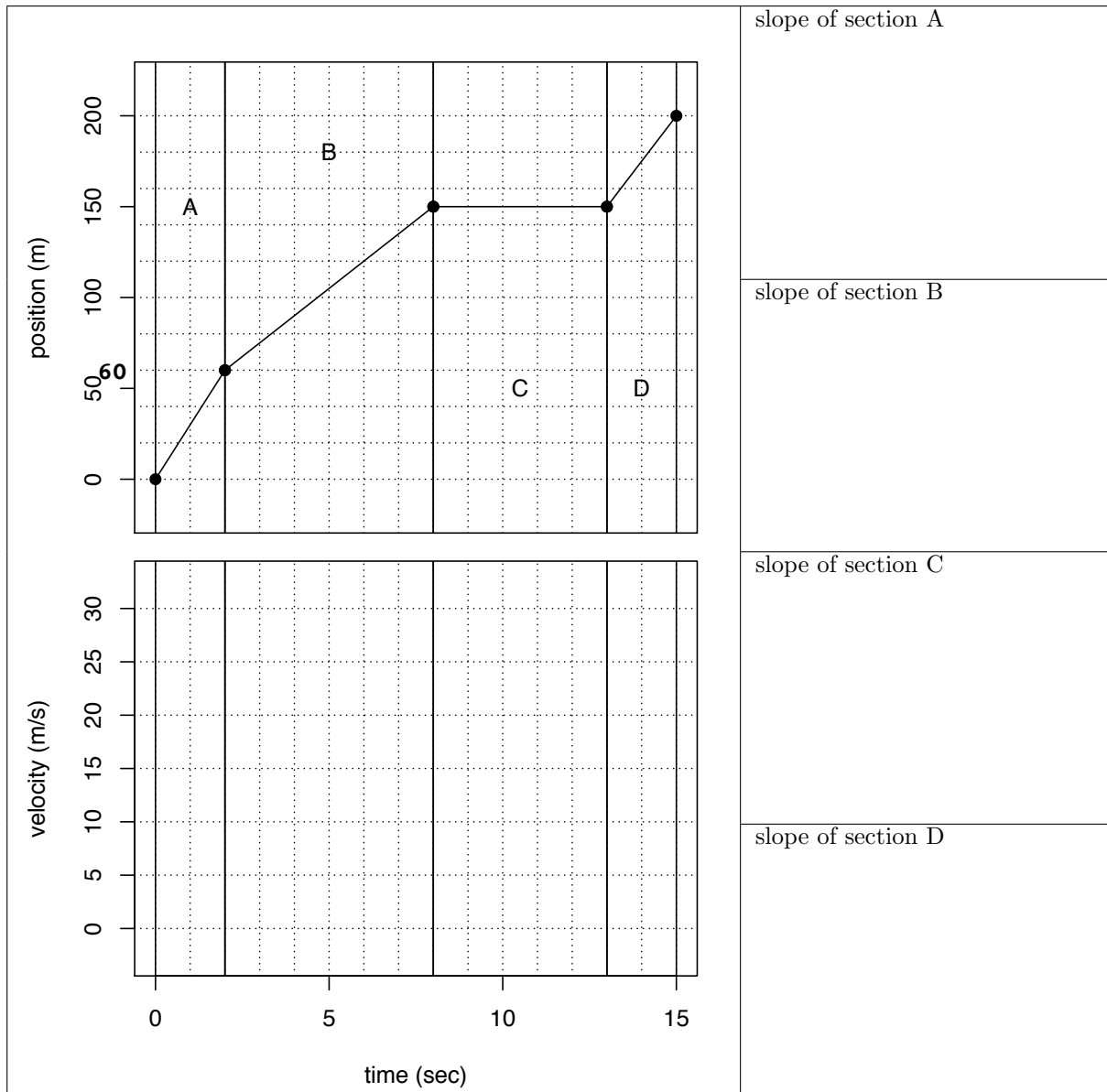


The SLOPE of a position-time graph is the velocity at that time!

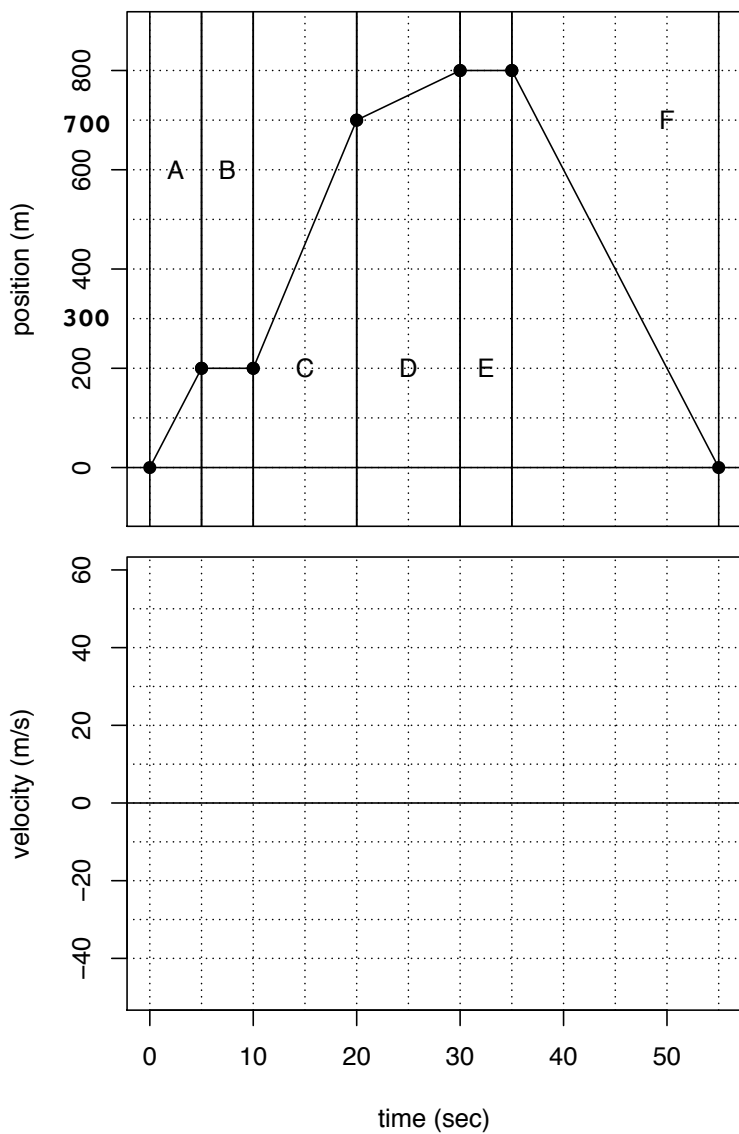
Question 1

- Find the slope in each section of the position-time graph.
- Draw the corresponding velocity-time graph.



Question 2

- Find the slope in each section of the position-time graph.
- Draw the corresponding velocity-time graph.



slope of section A

slope of section B

slope of section C

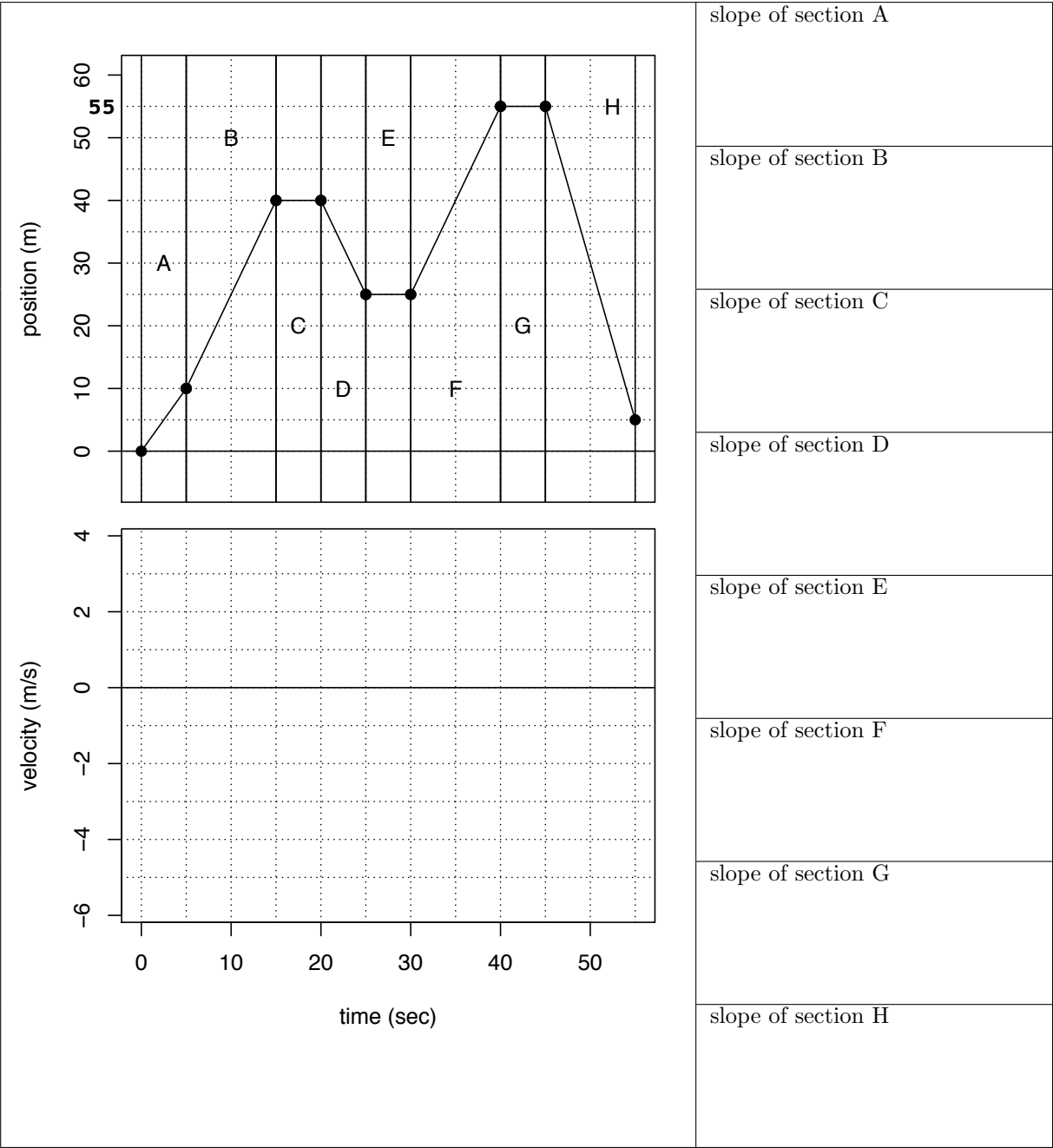
slope of section D

slope of section E

slope of section F

Question 3

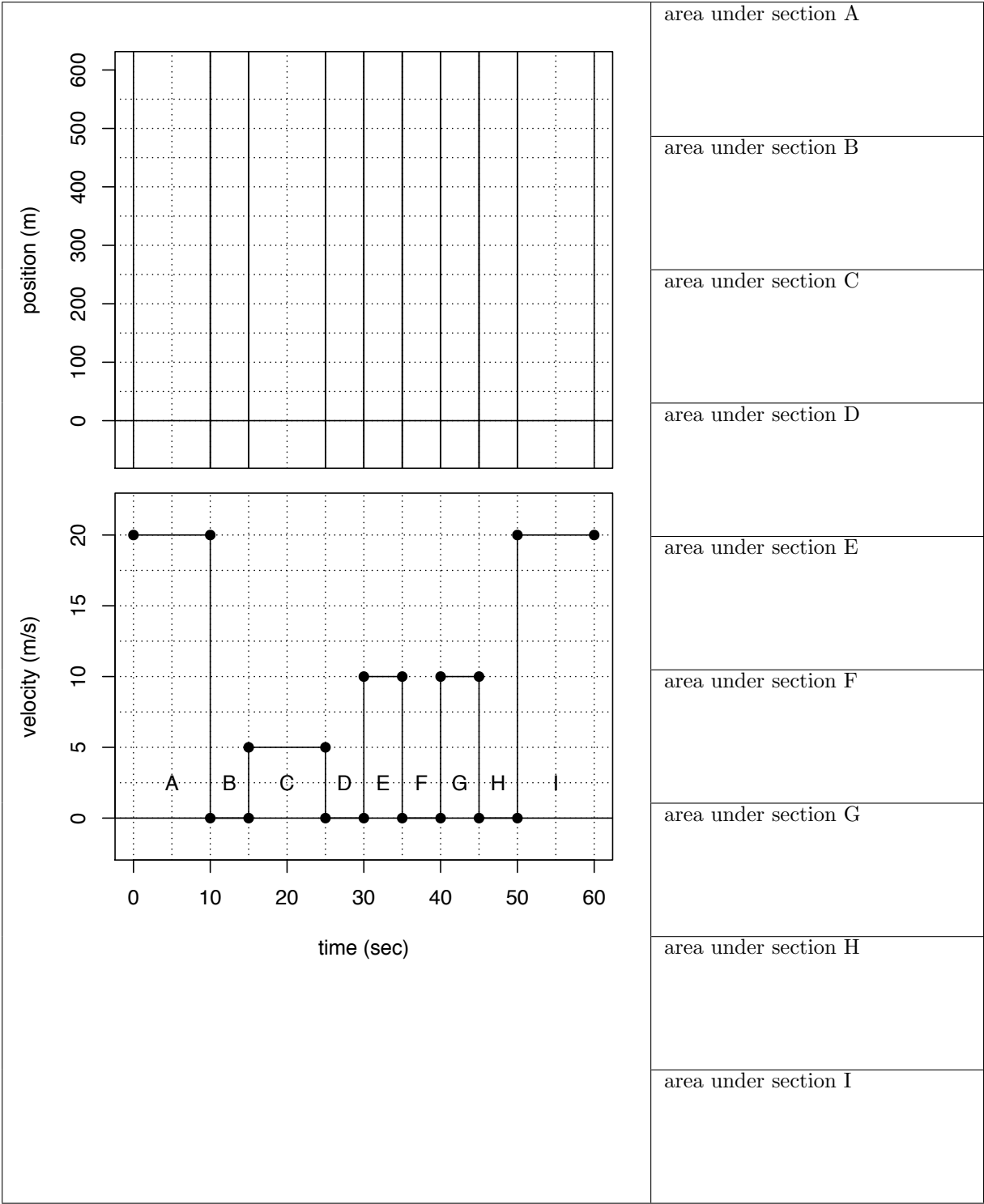
- Find the slope in each section of the position-time graph.
- Draw the corresponding velocity-time graph.



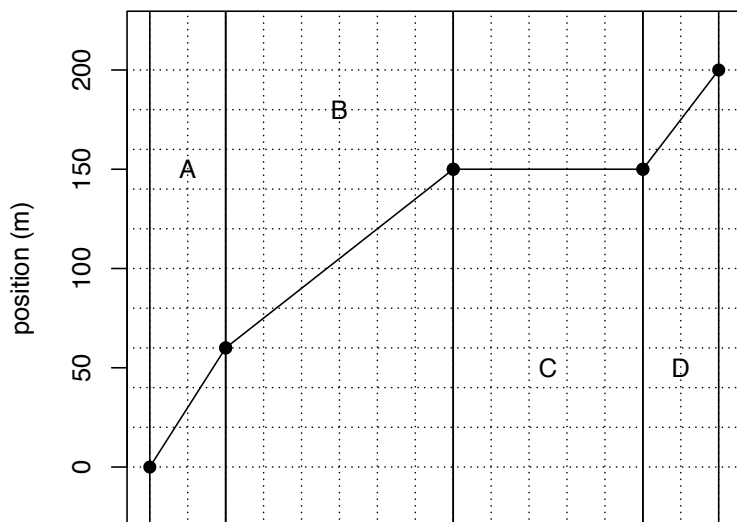
The AREA under a velocity-time graph is the change in position of that range!

Question 4

- Find the area under each section of the velocity-time graph.
- Draw the corresponding position-time graph, assuming initial position = 0.



Question 1: Answer

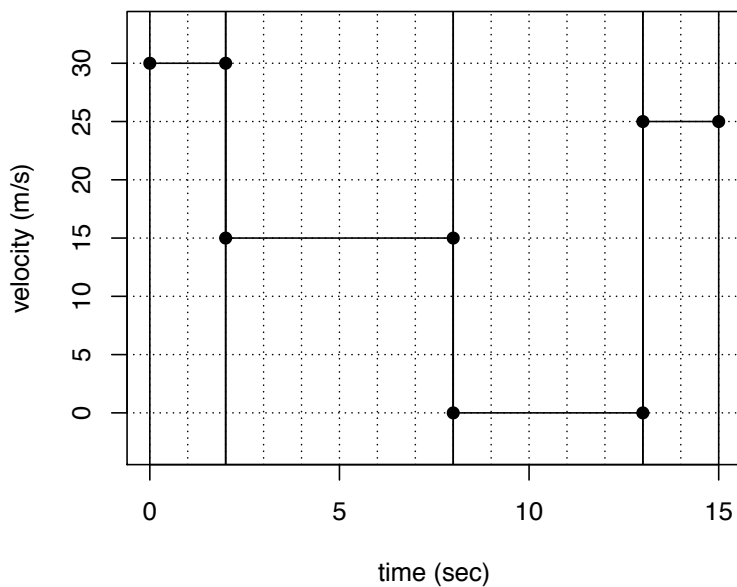


slope of section A
30 m/s

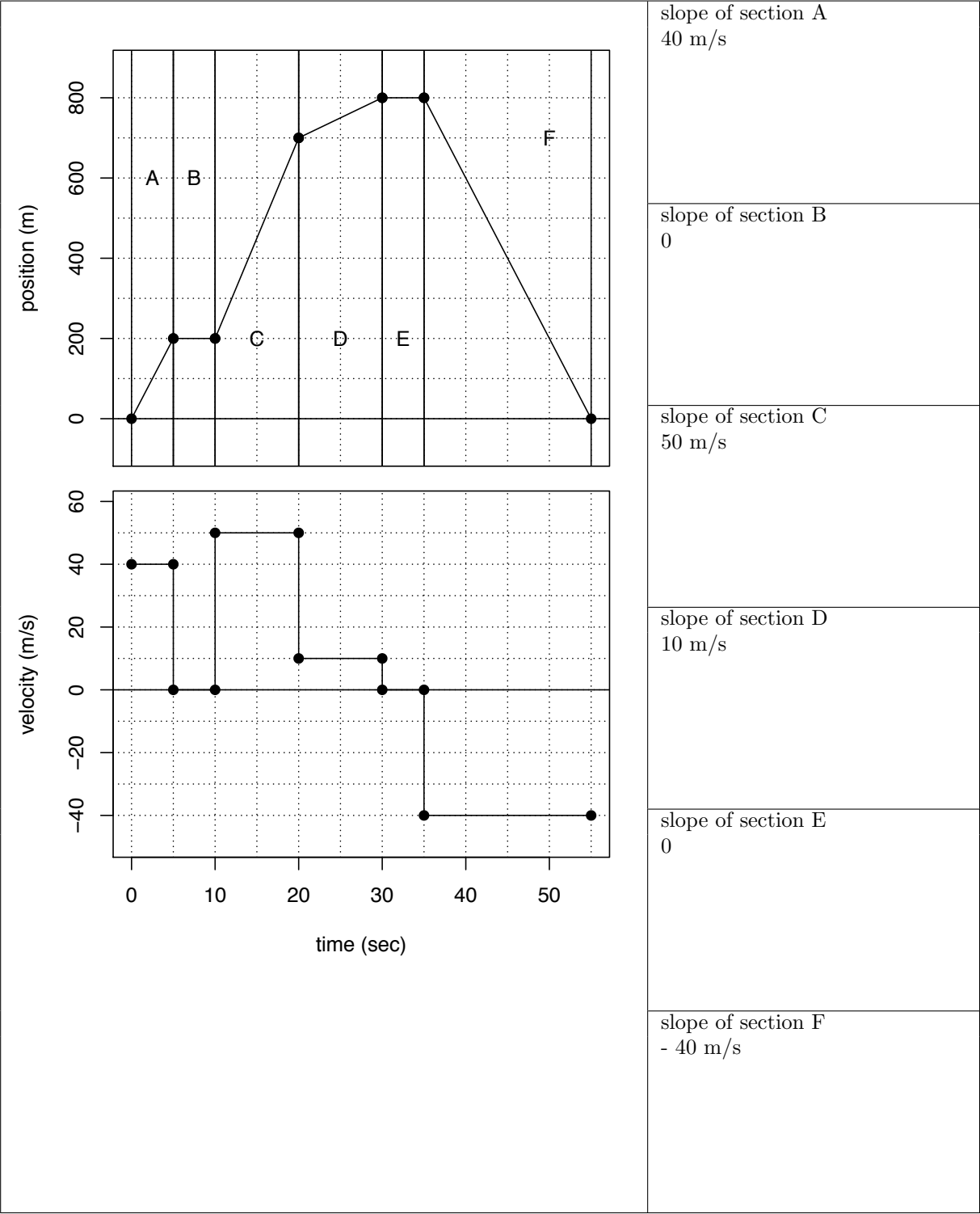
slope of section B
15 m/s

slope of section C
0

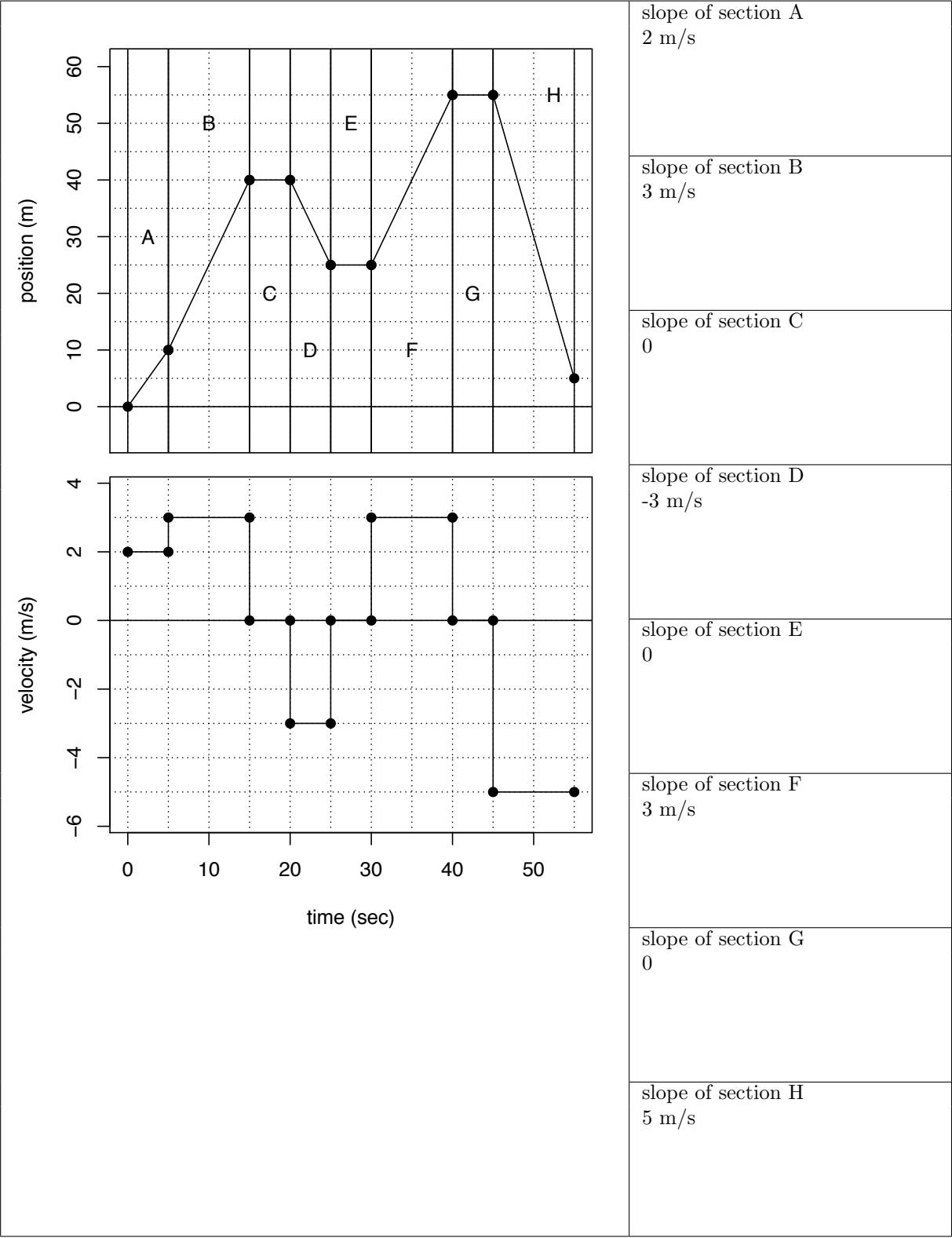
slope of section D
25 m/s



Question 2: Answer



Question 3: Answer

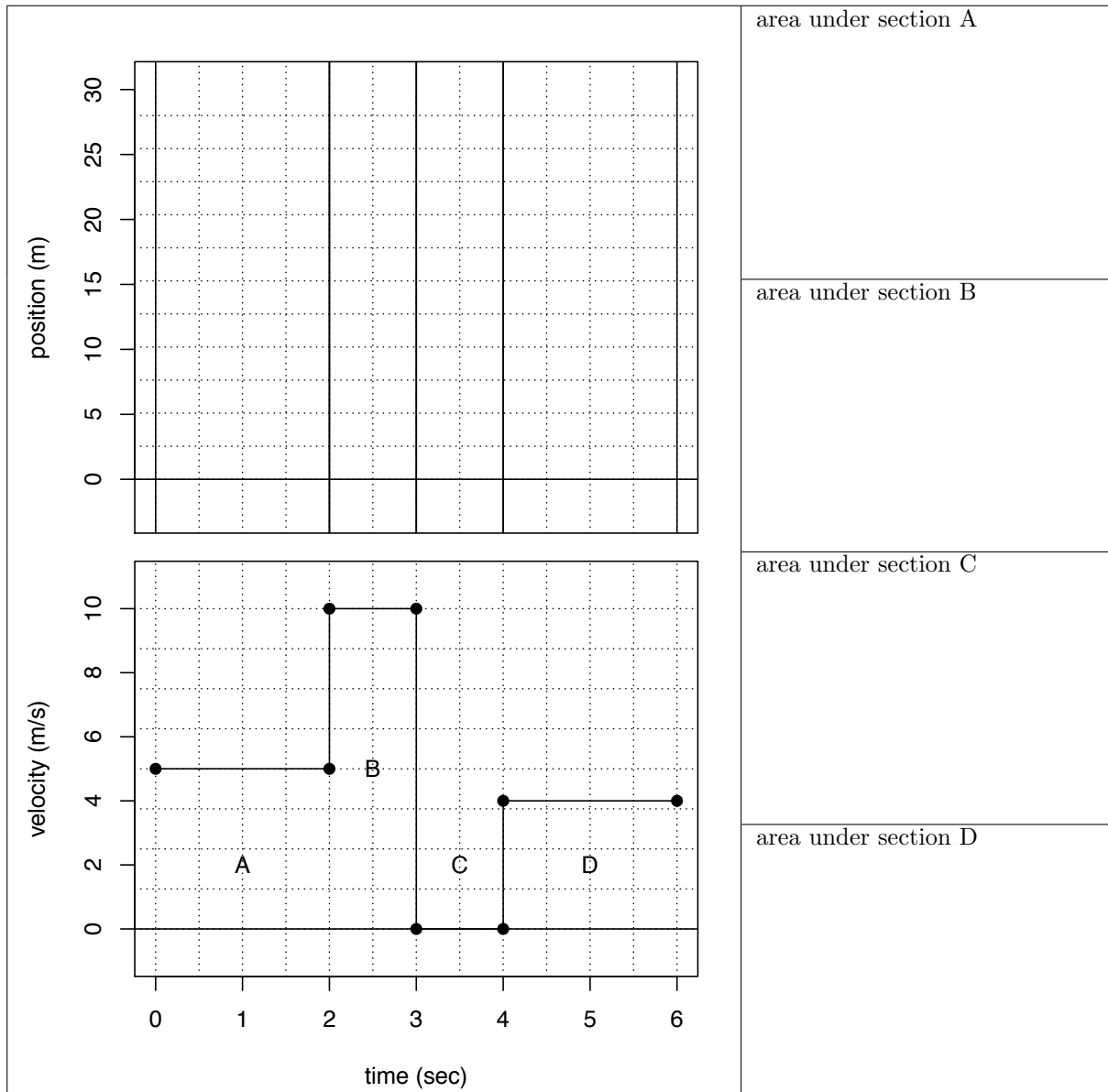


Question 4: Answer

| | |
|--|-------------------------------|
| <div><p>position (m)</p><p>time (sec)</p><p>velocity (m/s)</p><p>A B C D E F G H I</p></div> | area under section A 200 m |
| | area under section B 0 m |
| | area under section C 50 m |
| | area under section D 0 m |
| | area under section E 50 m |
| | area under section F 0 m |
| | area under section G 0 |
| | area under section H 50 m |
| | area under section I 200 m |

Question 5

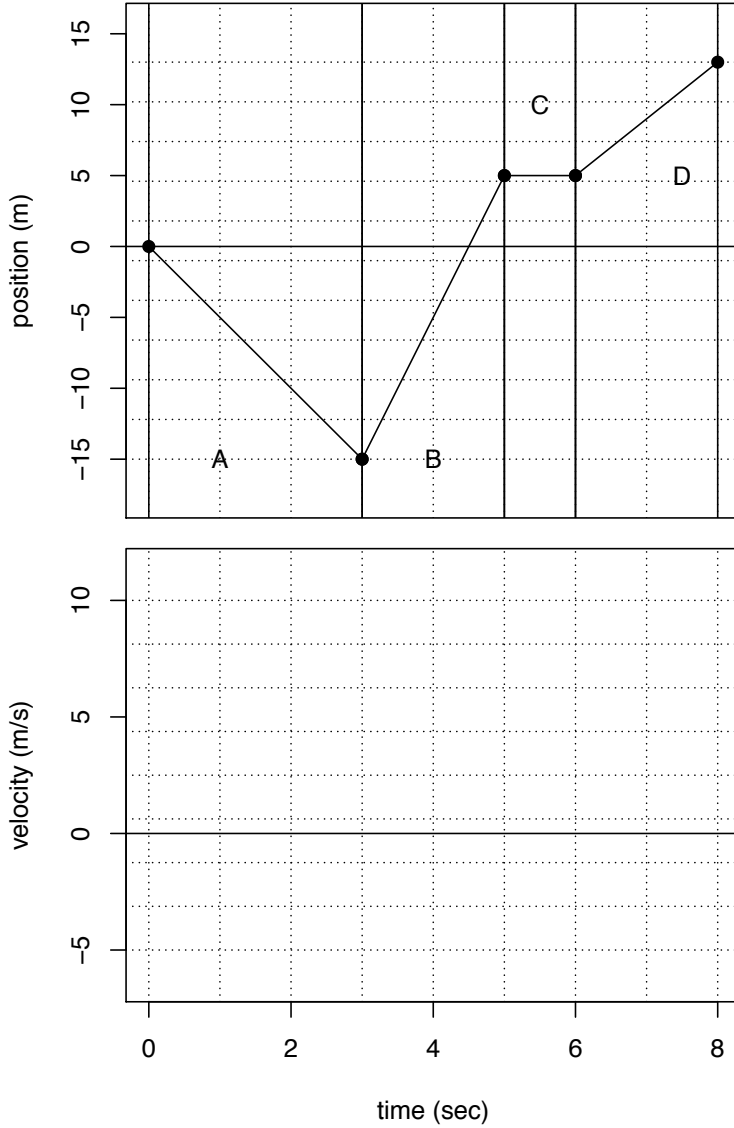
- Find the area under each section of the velocity-time graph.
- Draw the corresponding position-time graph, assuming initial position = 0.



Question

6

- Find the slope in each section of the position-time graph.
- Draw the corresponding velocity-time graph.



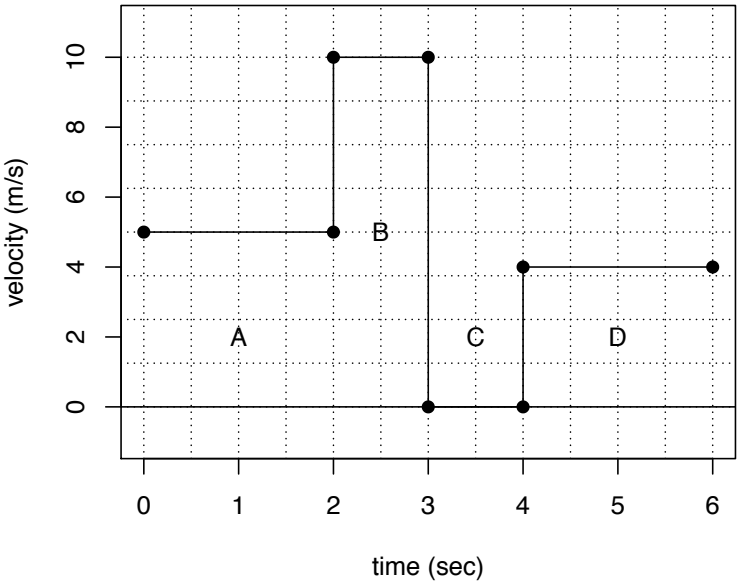
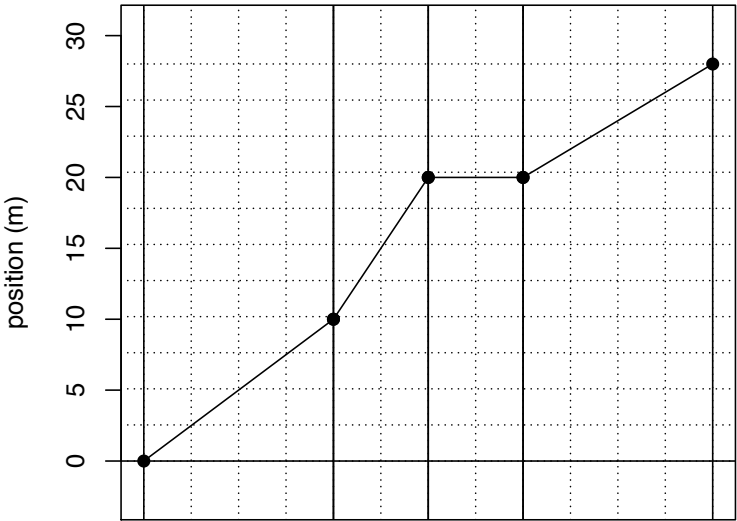
slope of section A

slope of section B

slope of section C

slope of section D

Question 5 Answer



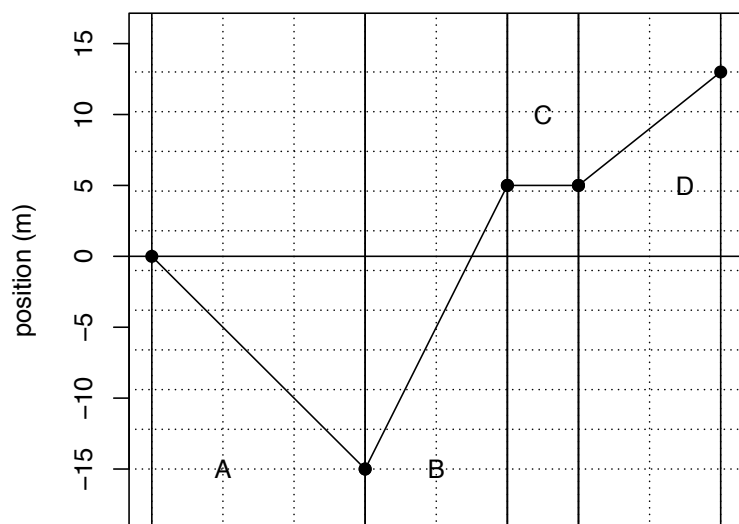
area under section A
10 m

area under section B
10 m

area under section C
0 m

area under section D
8 m

Question 6 Answer



slope of section A
-5 m/s

slope of section B
10 m/s

slope of section C
0 m/s

slope of section D
4 m/s

