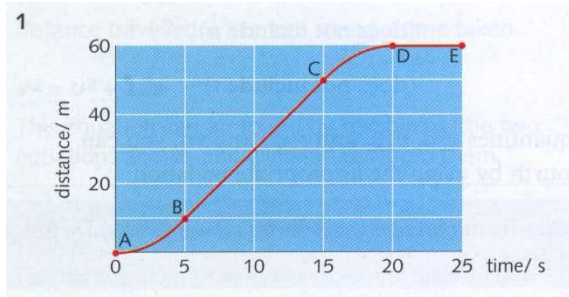


PHYS 215-Mechanics I-Question Bank 8

2019-2020

Full name:.....A

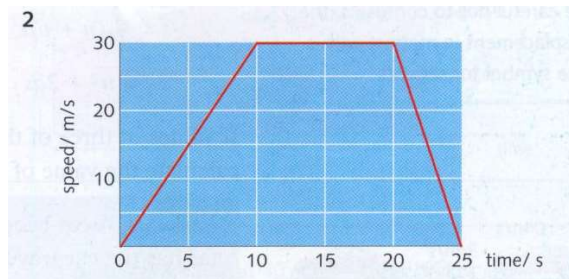
Answer the questions below.



The distance–time graph above is for a motor cycle travelling along a straight road.

- a) What is the motor cycle doing between points D and E on the graph?
- b) Between which points is it accelerating?
- c) Between which points is its speed steady?
- d) What is this steady speed?
- e) What is the distance travelled between A and D?
- f) What is the average speed between A and D?

- a)
- b)
- c)
- d)
- e)
- f)



The speed–time graph above is for another motor cycle travelling along the same road.

- a) What is the motor cycle’s maximum speed?
- b) What is the acceleration during the first 10 s?
- c) What is its deceleration during the last 5 s?
- d) What distance is travelled during the first 10 s?
- e) What is the total distance travelled?
- f) What is the time taken for the whole journey?
- g) What is the average speed for the whole journey?

- a)
- b)
- c)
- d)
- e)
- f)
- g)

g) Plot the acceleration – time graph of the motor cycle.

