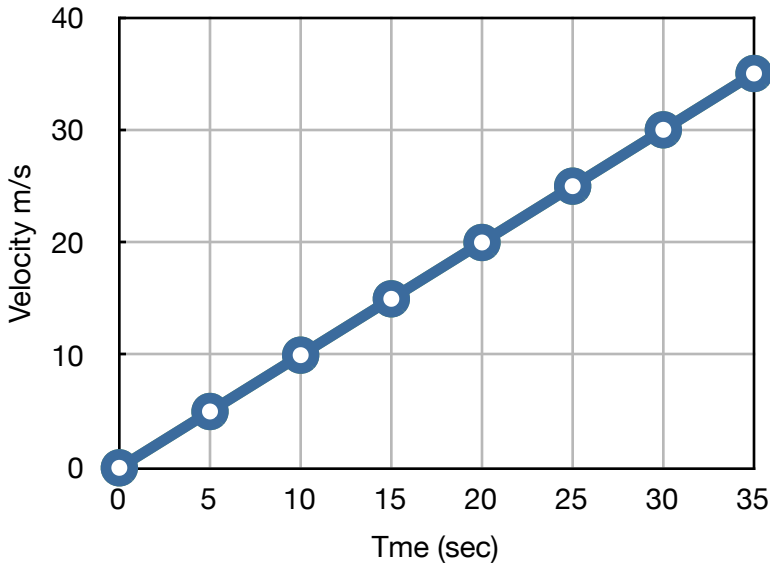


Speed, Velocity and Displacement
Homework

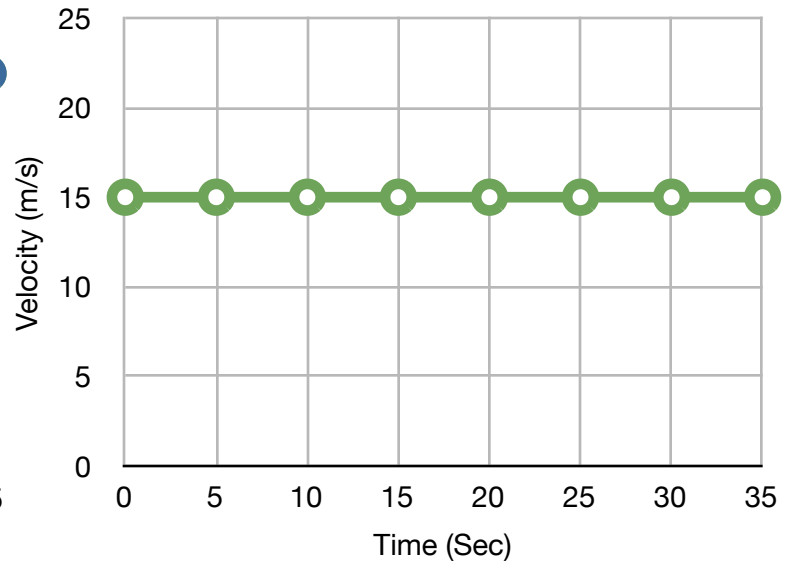
Use the graphs to answer the following questions. ALWAYS show work!

1. On graph C what is the speed at time 10 min?
2. Is the speed constant on graph C? Explain.
3. Compute the speed for time 7.5 min to 10 min on graph D.
4. Was the speed constant on graph D from 0 to 15 min.? Explain.
5. Compute the average speed of the object on graph D from time 10 to 15 minutes.
6. Compute the acceleration of the object on graph A from time 10 minutes to 20 seconds.
7. Compute the acceleration of the object on graph A from 0 to 10 seconds.
8. Is the acceleration of the object on graph A constant? Explain.
9. Compute the acceleration of the object on graph B from 15 to 25 seconds.
10. Is the acceleration of the object on graph B constant? Explain.
11. A river flows at a velocity of 16 km/hr. Your boat has a velocity of 42 km/hr. What is the maximum velocity that boat can have on that river? How?
12. If the throttle is stuck wide open on the boat from question 11, what is the minimum velocity you can have on that river in that boat? Why?
13. If you head straight across this river(Perpendicular to the flow) with the throttle wide open, what is the resultant velocity?
14. Main St, Belowgrade, Mantana is 2.3 km long. You ride you bike up and down this whole street. What is the distance you travelled? What is your displacement?
15. In Belowgrade, you decide to take a walk and walk 4 blocks north and 4 blocks west. What is the distance you travelled? What is your displacement?

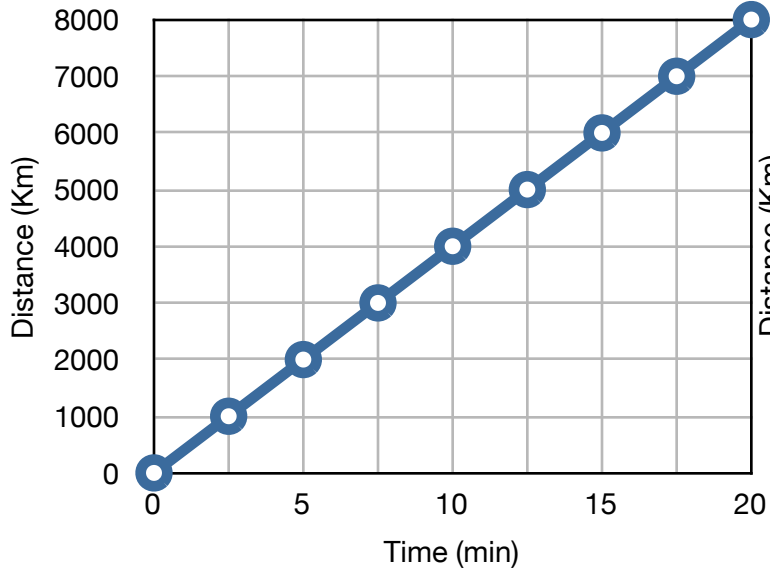
Graph A



Graph B



Graph C



Graph D

