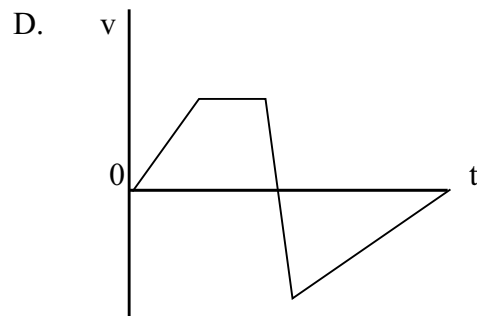
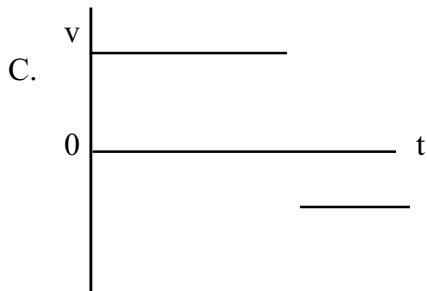
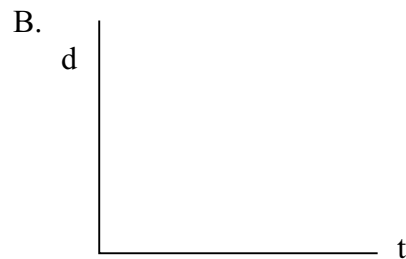
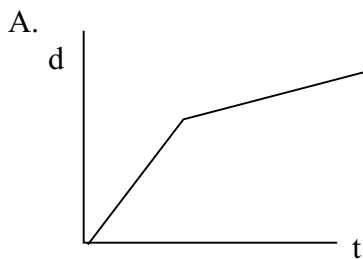


SCIENCE 1206 WORKSHEET  
Unit 3 - Motion

Complete each of the following as indicated.

1. A man walks 3.6 km east in 75 minutes and runs 1,5 km west at an average speed of 5.0 km/h. He then walks slowly at 1.0 km/h [W] for 15 minutes.
  - A. Calculate the average speed for the motion. (Draw a simple diagram to help you.)
  - B. Calculate the average velocity for the motion.
  - C. Sketch the following graphs for the motion: distance vs time, speed vs time, displacement vs time, velocity vs time.

2. Describe the motion indicated by each of the following graphs.



3. Tom leaves point A travelling west at an average speed of 4.0 m/s. 6.0 s later Louis leaves point A along the same path but travelling at 6.0 m/s.
  - A. How far apart are Tom and Louis 10 s after Tom left point A ?
  - B. How long after Louis leaves would he catch up with Tom ?  
(Use a graph to determine this answer.)