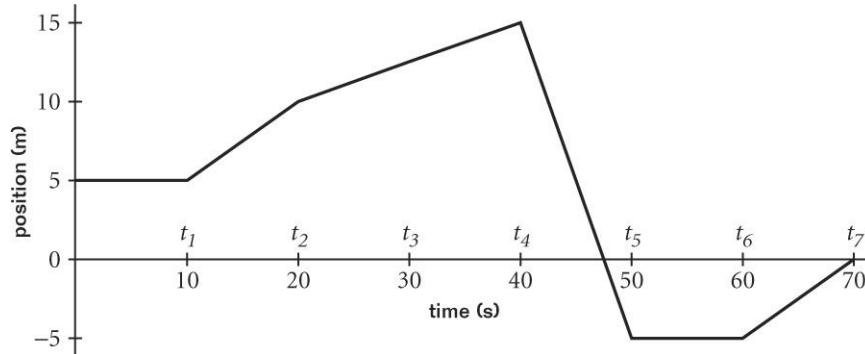


## Motion in One Dimension

**Graph Skills****Displacement and Velocity**

A minivan travels along a straight road. It initially starts moving toward the east. Below is the position-time graph of the minivan. Use the information in the graph to answer the questions.



1. Does the minivan move to the east? If so, during which time interval(s)?  
\_\_\_\_\_
2. Does the minivan move to the west? If so, during which time interval(s)?  
\_\_\_\_\_
3. Is the minivan's speed between  $t_1$  and  $t_2$  greater than, less than, or equal to its speed between  $t_2$  and  $t_3$ ?  
\_\_\_\_\_
4. Is the minivan's speed between  $t_4$  and  $t_5$  greater than, less than, or equal to its speed between  $t_6$  and  $t_7$ ?  
\_\_\_\_\_
5. Does the minivan ever stop completely? If so, at which time(s)?  
\_\_\_\_\_
6. Does the minivan ever move with a constant velocity? If so, at which time(s)?  
\_\_\_\_\_
7. What is the total displacement of the minivan during the trip?  
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