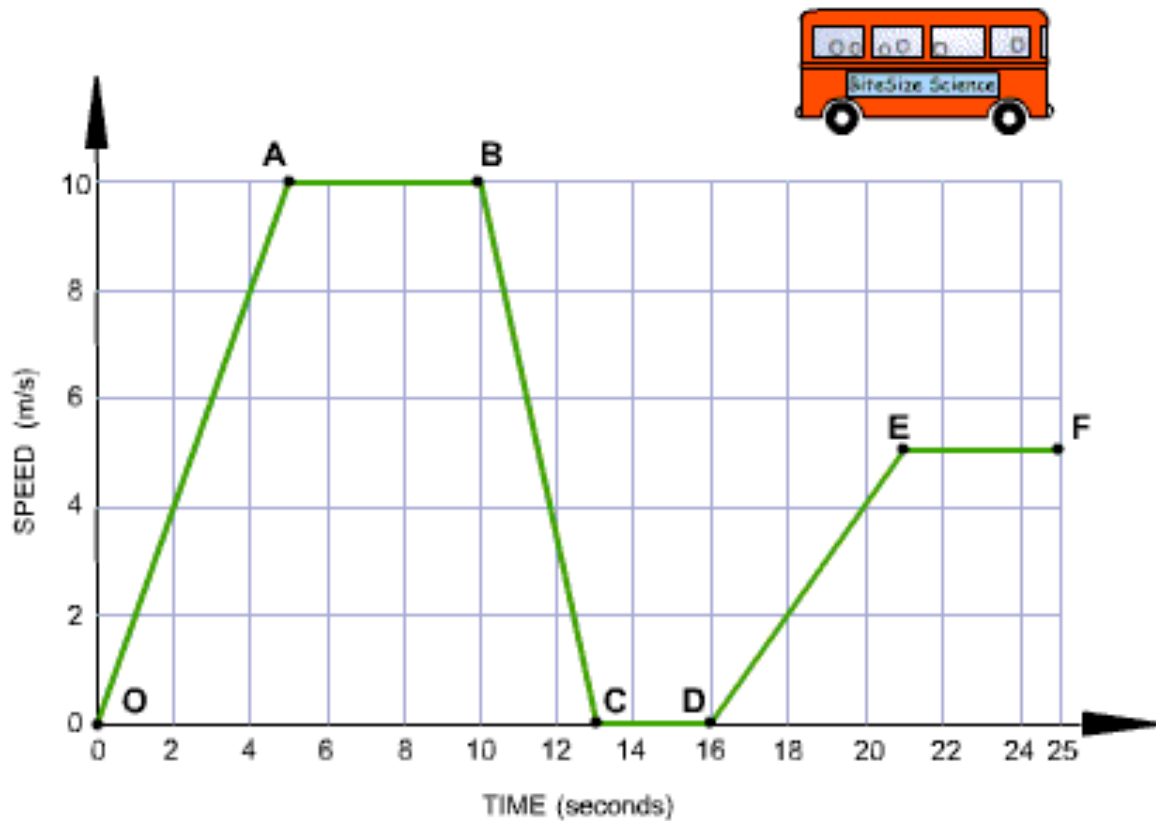


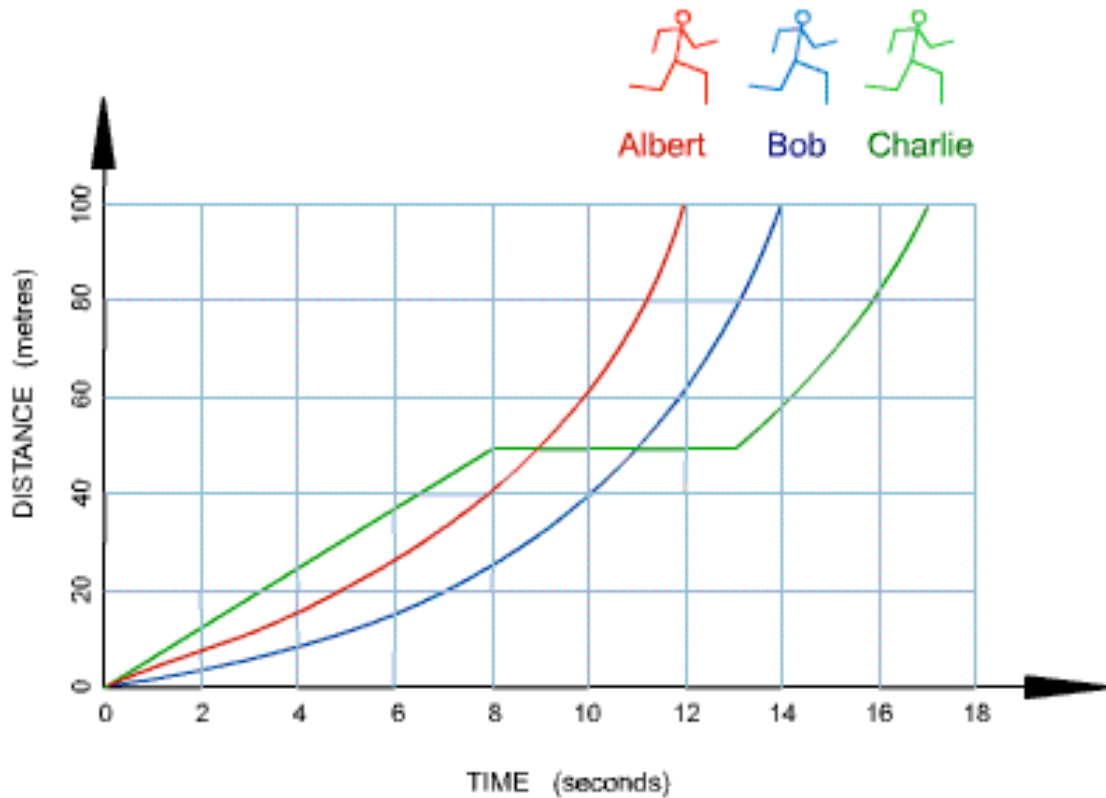
Acceleration Graph Practice



Answer the following questions regarding the graph:

- Choose the correct word to describe the motion during each part of the journey.
 - O-A: The bus is _____. Its speed changes from 0 to ___ m/s in ___ seconds.
 - A-B: The bus is moving at a _____ of 10 m/s for ___ seconds.
 - B-C: The bus is _____. It goes from 10 m/s to ___ in ___ seconds.
 - C-D: The bus is _____. It has _____ motion.
 - D-E: the bus is _____. It's speed increases.
 - E-F: The bus is moving at a _____ speed of ___ m/s.
- During which part of the journey was the bus moving fastest?
- During which part of the journey did the bus have the greatest acceleration?
- Calculate the acceleration between D and E.

Answer the questions regarding the graph which shows the three runners (Albert, Bob and Charlie) ran a 100 meter race.



5. The graph shows _____.
6. Which runner won the race?
7. Which runner stopped for a rest?
 - a. Where did he stop?
 - b. How long did he stop?
8. How long did Bob take to complete the race?
9. Calculate Albert's average speed. (HINT: How far did he go compared to his overall time) $v=d/t$
10. Calculate the accelerations of Bob and Albert. (distance= $\frac{1}{2}at^2 + Vi$ OR $a=\frac{vf-vi}{tf-ti}$)
 - a) Bob
 - b) Albert