



A bug is crawling along a straight wire. The velocity, $v(t)$, of the bug at time t , $0 \leq t \leq 11$, is given in the graph above.

8. According to the graph, at what time t does the bug change direction?
 - (A) 2
 - (B) 5
 - (C) 6
 - (D) 8
 - (E) 10

9. According to the graph, at what time t is the speed of the bug greatest?
 - (A) 2
 - (B) 5
 - (C) 6
 - (D) 8
 - (E) 10

10. When does the particle move forward?

11. When does the particle move backward?

12. When is the particle's acceleration positive?

13. When is the particle's acceleration negative?

14. When is the particle's acceleration zero?

15. When does the particle speed up?

16. When does the particle slow down?

17. When does the particle stand still?