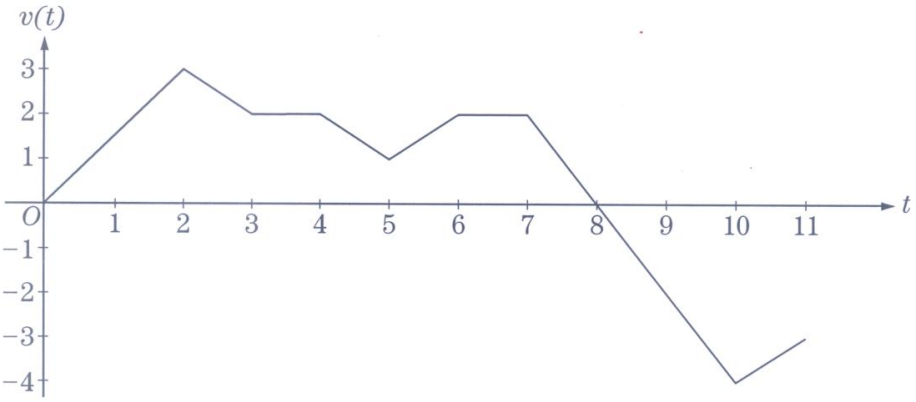
DATE:_____



A bug is crawling along a straight wire. The velocity, $v(t)$, of the bug at time t, $0 \le t \le 11$, 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 bug move forward?

11. When does the bug move backward?

12. When is the bug's acceleration positive?

13. When is the bug's acceleration negative?

14. When is the bug's acceleration zero?

15. When does the bug speed up?

16. When does the bug slow down?

17. When does the bug stand still?