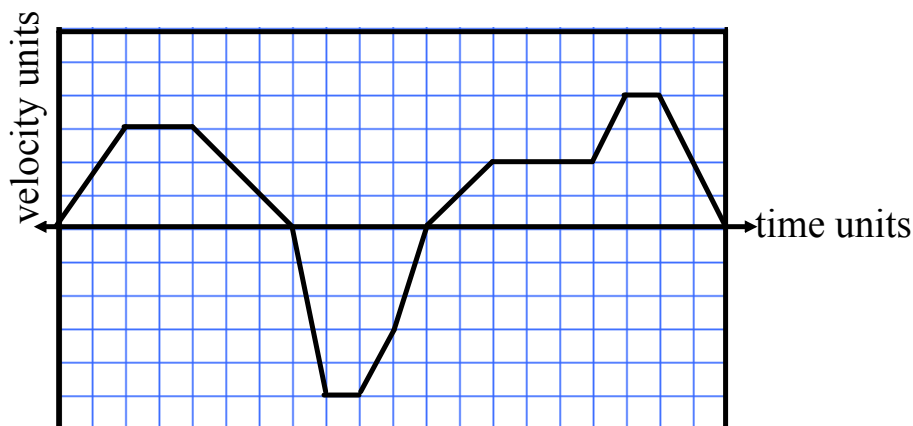


# Calculus AB

## Velocity Worksheet

Name: \_\_\_\_\_

The following graph represents  $v(t)$ , a velocity function.



Answer each of the following questions about  $v(t)$ .

- 1) What does the negative portion of the above graph represent?
- 2) How many times did the object stop?
- 3) What is the fastest speed attained by the object?
- 4) What is the fastest acceleration attained by the object?
- 5) What was the distance covered for the first leg of the trip?  
the second?  
the third?
- 6) What is the total distance traveled?
- 7) What is the total displacement of the object?
- 8) Which of these two is represented by  $\int_0^{20} v(t) dt$  ?
- 9) Sketch the acceleration graph  $a(x)$  on the above axis.