

# Chapter 7

Review Video

p. 386 #4       $v(t) = 6t^2 - 18t + 12$        $0 \leq t \leq 2$

- a. Determine when the particle is moving to the right, to the left, and stopped

p. 386 #4       $v(t) = 6t^2 - 18t + 12$        $0 \leq t \leq 2$

b. Find the particle's displacement for the given time interval.

p. 386 #4

$$v(t) = 6t^2 - 18t + 12$$

$$0 \leq t \leq 2$$

c. If  $s(0) = 3$ , what is the particle's final position?

p. 386 #4

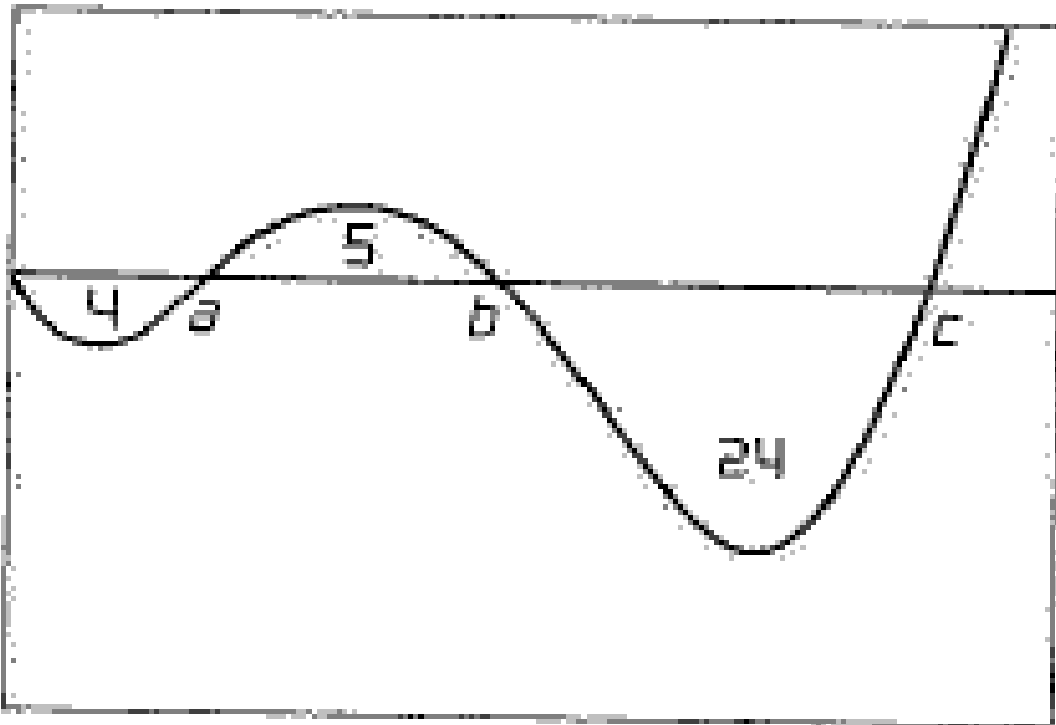
$$v(t) = 6t^2 - 18t + 12$$

$$0 \leq t \leq 2$$

d. Find the total distance traveled by the particle.

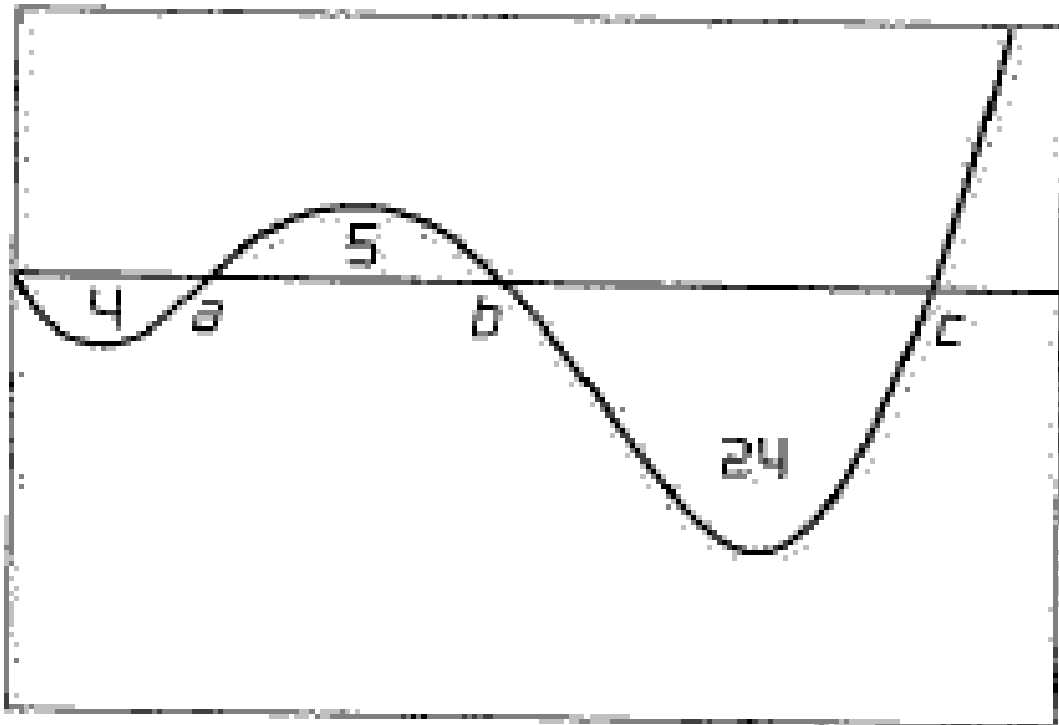
p. 386 #12-16

12. Below is the velocity graph of a function. What is the particle's displacement between  $t = 0$  and  $t = c$



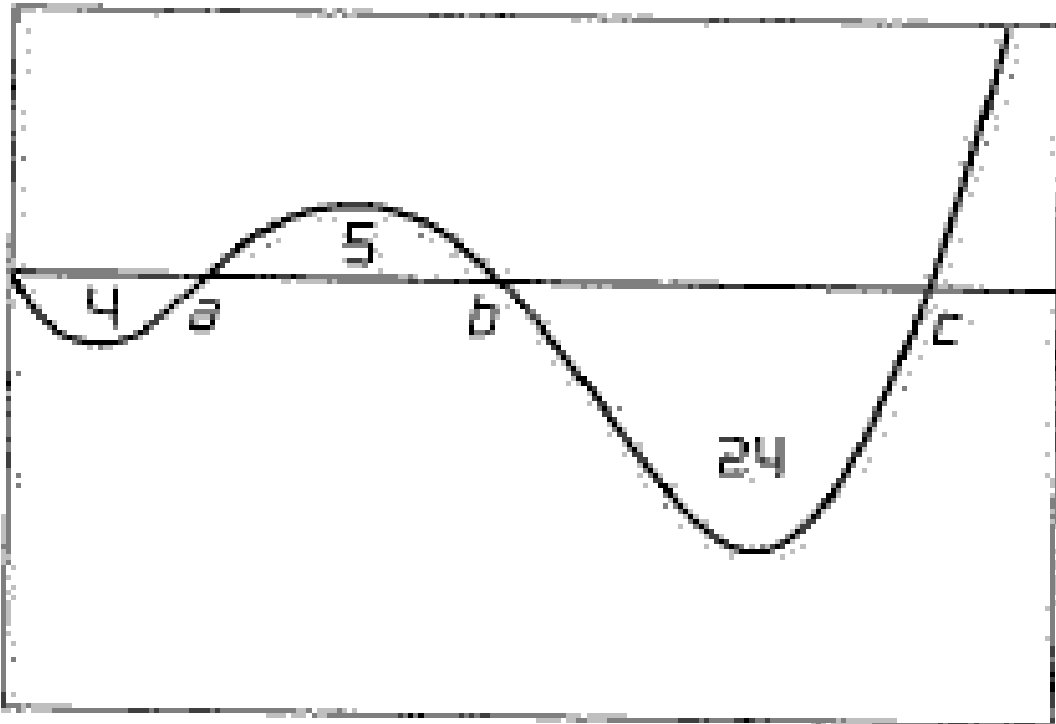
p. 386 #12-16

13. Below is the velocity graph of a function. What is the total distance traveled between  $t = 0$  and  $t = c$



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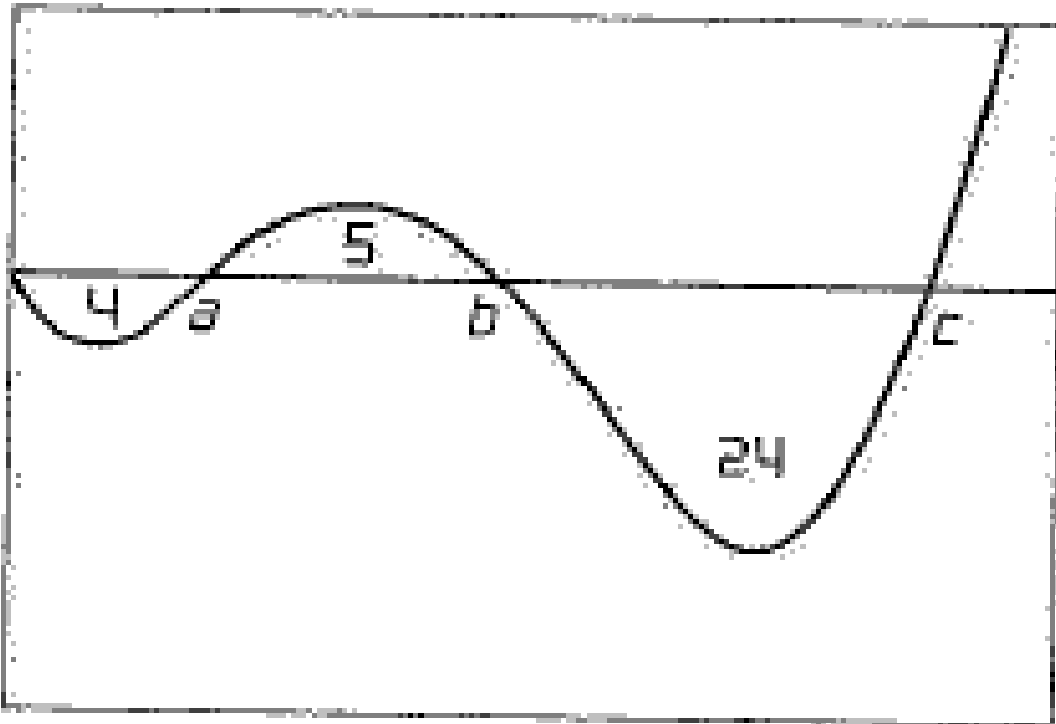
14. Below is the velocity graph of a function. Give the positions of the particle at times  $a$ ,  $b$ , and  $c$  if  $s(0) = 15$ .





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15. Below is the velocity graph of a function. Approximately where does the particle achieve its greatest positive acceleration on



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15. Below is the velocity graph of a function. Approximately where does the particle achieve its greatest positive acceleration on the

