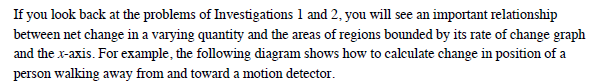
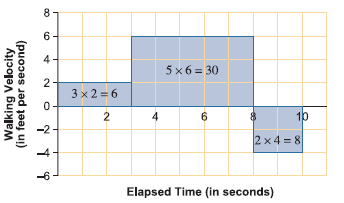
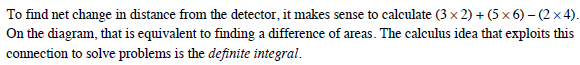
Math 4 Honors Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

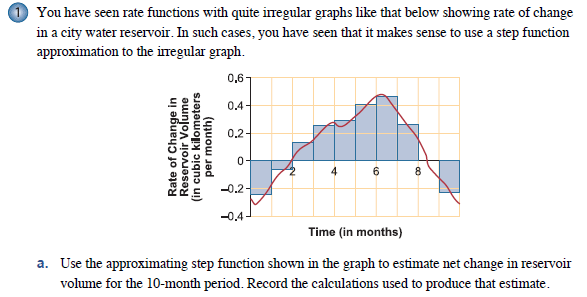
Lesson 8-3: *The Definite Integral* Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Learning Goals:**

* *I can find and interpret the meaning of the definite integral of a function f(x) over an interval [a, b].*
* *I can find approximate and exact values of definite integrals.*

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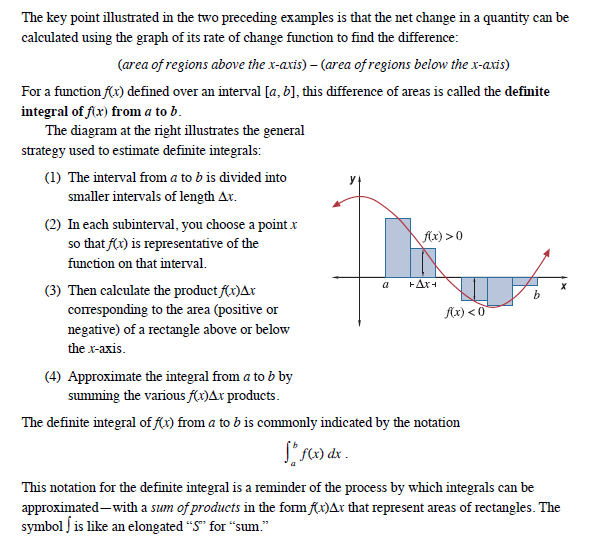


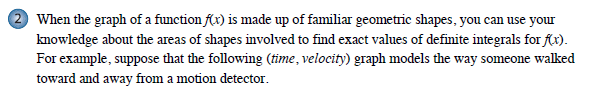


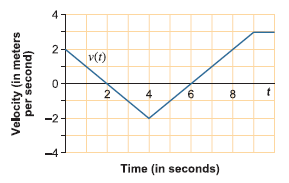
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**\*\*\*Very important! Please read this carefully**!\*\*\*





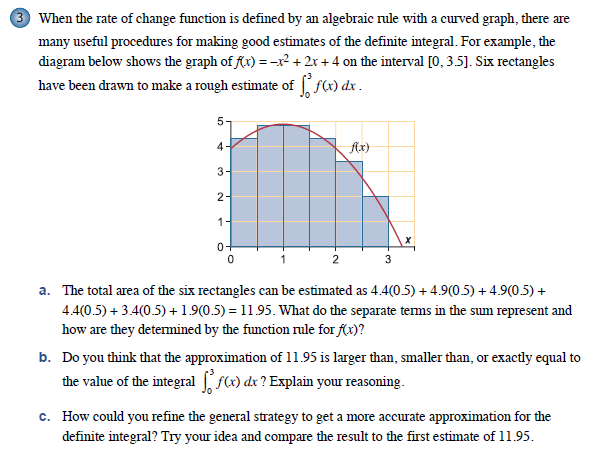


1. Evaluate the definite integral and explain what

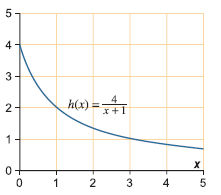
the results tell about the walker’s distance

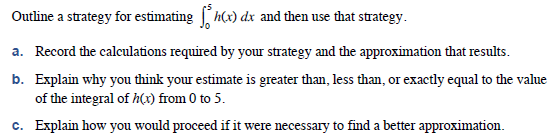
from the motion detector.

b. What is the total area between the graph of *v*(*t*) and the *t-*axis and what information about the walker’s trip is given by that number?

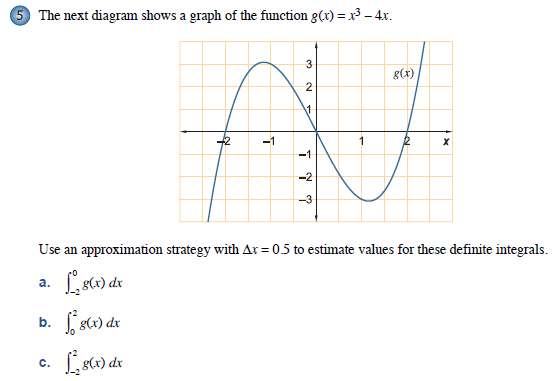
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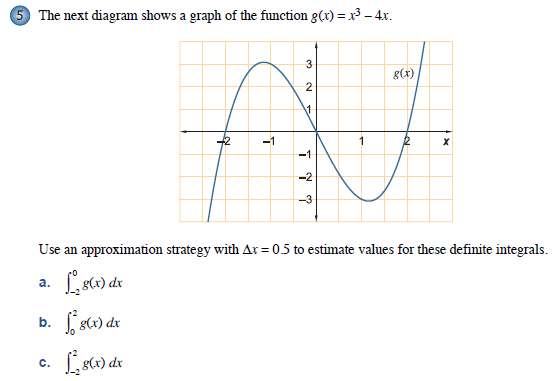


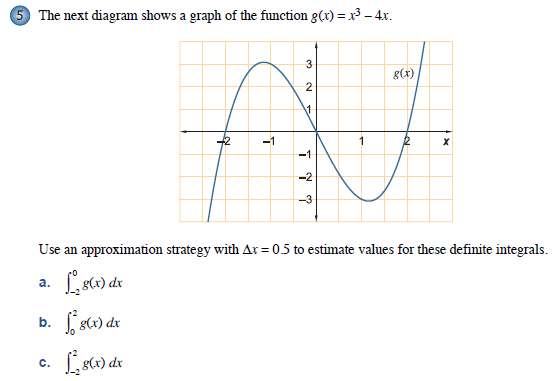




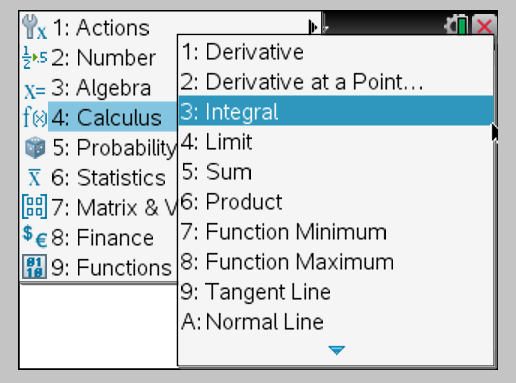
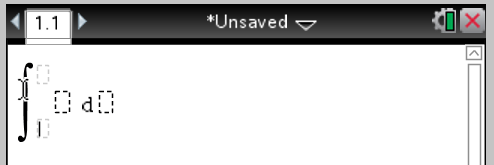
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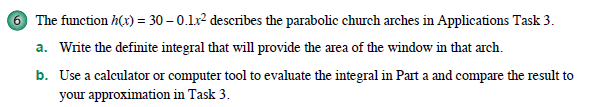
6. Our calculators have multiple ways of calculating an integral. Here’s one way:

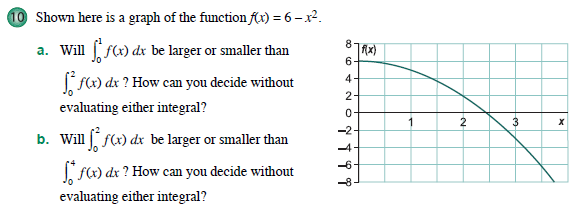


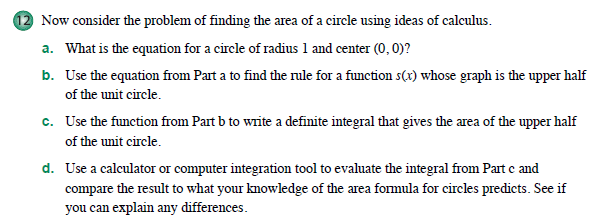
\*\*\*Check your answers to parts a, b, and c from #5 to see how accurate your estimates are.

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**HOMEWORK: Lesson 8-3**

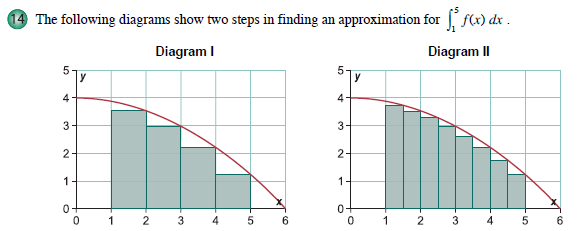
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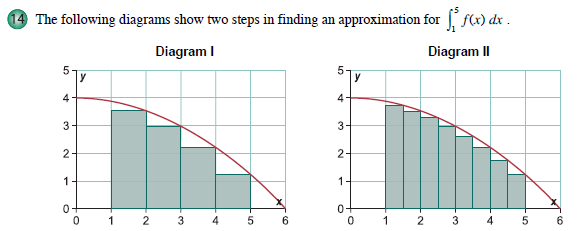
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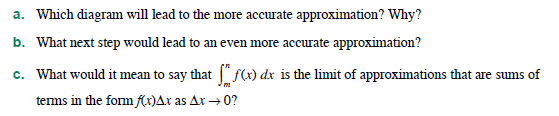


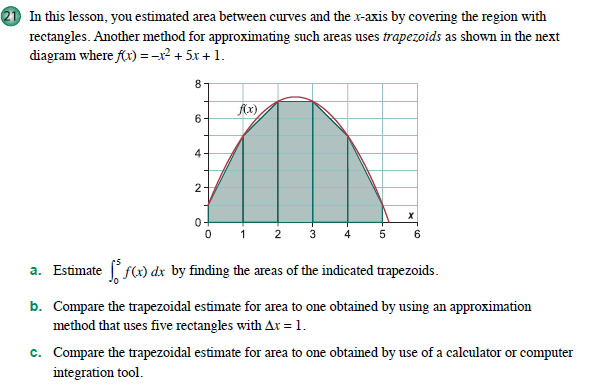
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