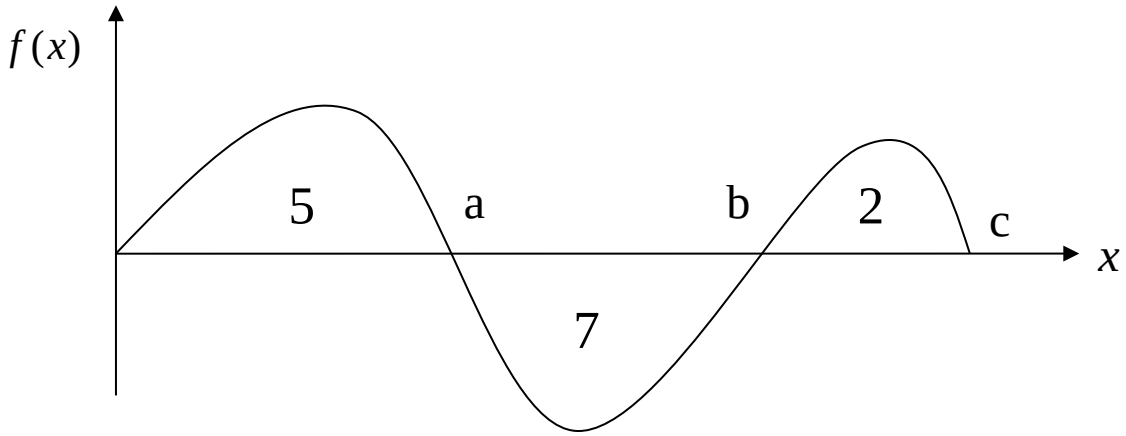
Conceptual Questions
Chapter Integration

Last Name _____ First Name_____ Date ____ Group#_____ Last Name Initial__

1) Given the $f(x)$ vs x curve, and the magnitude of the areas as shown, the value of $\int_0^b f(x)dx$



Individual Attempt	**Group Attempt**
A. -7 B. -2 C. 12 D. Cannot be determined	A. -7 B. -2 C. 12 D. Cannot be determined

Justification/ Work _____

PS. The questions in this handout have been taken from tests from previous years

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Chapter 07.02 (Set One)

1. What is the approximate value of $\int_a^b xe^x dx$ where $a = 1.1$ and $b = 4.3$ using three-segment trapezoidal rule?
2. What is the value of the integral $\int_0^{2.4} f(x)dx$ if
   $f(x) = 2.4x, 0 \le x \le 0.22$ and
   $= 3.2x^2, 0 \le x \le 2.4,$
   using the two-segment trapezoidal rule?
3. Using the multiple-segment trapezoidal rule with 25 segments, the true error in estimating an integral $\int_{10}^{20} f(x)dx$ is found to be 2.6. If a multiple segment trapezoidal rule with 56 segments is used for the same integral, what is your approximate estimate of the true error?

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