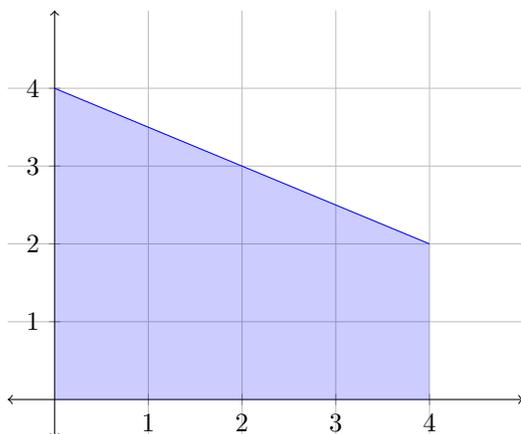


Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided.

Name: _____

1. Given the following graph, answer the following questions:



(a) Write the definite integral that represents the shaded area.

$A =$ _____

(b) Using **GEOMETRIC FORMULAS**, evaluate the integral found in (a).

$A =$ _____

2. [6 pts]

Given $\int_{-5}^2 f(x) dx = 1$, $\int_{-1}^3 f(x) dx = 4$ and $\int_{-5}^3 f(x) dx = 2$. Find $\int_{-1}^2 f(x) dx$

$\int_{-1}^2 f(x) dx =$ _____