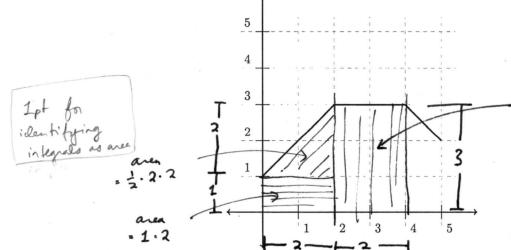
Name: K

Section:

You have 10 minutes to complete the quiz. Please show all work, and then circle your answer.

1. Let f(x) be defined using the graph below.

Compute the integrals $\int_0^2 f(x) dx$ and $\int_0^4 f(x) dx$



 $\int_0^2 f(x) dx = \frac{1}{2} \cdot 2 \cdot 2 + 1 \cdot 2 = 2 + 2 = 4$

 $\int_{0}^{4} f(x) dx = \frac{1}{2} \cdot 2 \cdot 2 + 1 \cdot 2 + 2 \cdot 3 = 4 + 6 = 10$

2. Suppose that $\int_1^7 f(x) dx = 6$ and that $\int_3^7 f(x) dx = 4$. Find $\int_1^3 f(x) dx$.

 $\int_{1}^{7} f(x) \, dx = \int_{1}^{3} f(x) \, dx + \int_{3}^{7} f(x) \, dx$

1 3 7

1pt 6 = \int foo de + 4

$$2/2 \qquad \int_1^3 f(x) dx = 2$$