

Name: _____

Quiz 19, section 5.2

1. (3 pts) A function $f(x)$ has the following properties: $\int_0^2 f(x) dx = 3$ and $\int_0^5 f(x) dx = 7$.

Find the value of $A = \int_2^5 f(x) dx$.

2. (3 pts) A function $f(x)$ has the following properties: $\int_5^0 f(x) dx = -2$ and $\int_5^2 f(x) dx = 1$. Find the value of $A = \int_0^2 f(x) dx$.

3. (4 pts) Find an upper and a lower bound for $I = \int_2^6 (x - 3)^2 + 4 dx$.