1. Let $f(x)=2$ and $a=0$. Then $A_{f}(x)=\int_{0}^{x} 2 d t$.
(a) Find $A_{f}(0), A_{f}(3), A_{f}(-3), A_{f}(4)$
(b) Find a formula for $A_{f}(x)$. How is $A_{f}$ related to $f$ ?
2. Let $f(x)=-2 x$ and $a=1$.
(a) Find $A_{f}(1), A_{f}(3), A_{f}(0)$, and $A_{f}(-1)$
(b) Find a formula for $A_{f}(x)$. How is $A_{f}$ related to $f$ ?
