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