7	
6.4	The Fundamental Theoriem of Calculus (FTC)
	Let f be continuous on [a,b]. Then
	$\iint F(x) dx = F(b) - F(a)$ where a
	where F is any anti-derivative of f; ie. F'(m)-f(m).
Notatio	9f F'(x) = f(x), then we usually write.
	$\int_{a}^{b} f(x) dx = F(x) \Big _{a}^{b} = F(b) - F(a).$
\$	$F(x)$ $\frac{4}{3}$ means $F(4)-F(3)$.
	in order to find.
	in order to find $\int f(x) dx$, we can o first find
	a
	$\int f(x) dx$ which gives a family of functions $F(x) + C$.
	• then find $(F(b) + C) - (F(a) + C) = F(b) - F(a)$
	(F(b)+C)-(F(a)+C)=F(b)-F(a) Thus, can (19et aid of C and only compute this