## Math 1100 - Calculus, Quiz \#10B - 2010-01-21

1. Compute the general antiderivative of each of the following functions:
(a) $f(x)=x^{7}+2$.

Solution: $F(x)=\frac{1}{8} x^{8}+2 x+C$.
(b) $g(x)=\sqrt[3]{x+5}$.

Solution: $F(x)=\frac{3}{4}(x+5)^{4 / 3}+C$.
(c) $h(x)=x^{7}+2+\sqrt[3]{x+5}+\ln (x)$.

Solution: $F(x)=\frac{1}{8} x^{8}+2 x+\frac{3}{4}(x+5)^{4 / 3}+\frac{1}{x}+C$.
2. Let $f$ be the function shown below. Suppose $F$ is an antiderivative of $f$, and $F(0)=0$. Sketch the graph of $F$.


