## Quiz 4b Calculus $2 \quad 3 / 19 / 04$

Each problem is worth 5 points. For full credit provide proper justification for your answer.

1. Find the Taylor polynomial of degree 3 approximating the function $f(x)=\sqrt{x+1}$ for $x$ near zero.
2. Find the Taylor polynomial of degree 5 for the function $g(x)=\sin x$ centered at $x=0$.
