## Quiz

## Name

1. Find the maximum and minimum values of the function $f(x)=3 x^{4}-4 x^{3}$ with $-1 \leq x \leq 2$.
2. Find the critical points, the intervals of increase and decrease, and the local maxima and local minima of the function $f(x)=x \sin x+\cos x$ where $0 \leq x \leq 2 \pi$.
