

Homework 18

1. Find the extrema (both global and local) for the function $f(x) = -2x^2(x-2)(x+1)$ on $[-2, 1]$
2. Find the extrema (both global and local) for the function $f(x) = -2x^2(x-2)(x+1)$ on $[-1, 2]$
3. Find the extrema (both global and local) for the function $f(x) = -2x^2(x-2)(x+1)$ on $[-5, 5]$
4. Find the extrema (both global and local) for the function $f(x) = -x^5 - 6x^4 - 5x^3$ on $[-1, 1]$
5. Find the extrema (both global and local) for the function $f(x) = -x^5 - 6x^4 - 5x^3$ on $[-2, 2]$
6. Find the extrema (both global and local) for the function $f(x) = -x^5 - 6x^4 - 5x^3$ on $[-5, 5]$