Name:

1. [5pts] Consider the function $f(x)=\frac{x^{5}}{10}+x^{4}+2$. Find the x-coordinate of all the inflection points.
2. [5pts] Consider the function $f(x)=2 \ln \left(x^{2}+1\right)$. Find the largest open interval(s) on which the function is both concave up and increasing.
