1. (a) (5 pts) Find the intervals on which f is increasing or decreasing.
(b) (5 pts) Find the local maximum and minimum values of f.
(c) (5 pts) Find the intervals of concavity and the inflection points.

$$f(x) = x^4 - 2x^2 + 2$$

2. (5 pts) Find the limit. What can you say about the asymptotes of the function?

$$\lim_{x \to -3^+} \frac{x+2}{x+3}$$