Calculus Exercises (4.3)

1. Use the Second Derivative Test to find local maximum and minimum values of the function

\[ f(x) = 2x^2 - x^4 \]

2. \[ f(x) = 3x^4 + 4x^3 \]

   (1) Find the intervals of increase or decrease and the local maximum and minimum values of \( f(x) \).

   (2) Find the intervals of concavity and the inflection points of \( y = f(x) \).