1. Use the graph of the function to state the absolute and local maximum and minimum values of the function.

2. Sketch the graph of a function that has two local maxima, one local minimum and no absolute minimum.

3. Find the absolute maximum and absolute minimum values of \( f \) on the given interval.
   
   (a) \( f(x) = \ln(x^2 + x + 1) \), \([-1, 1]\)

   (b) \( f(x) = xe^{x/2} \), \([-3, 1]\)