- **2.** [8 points] On the axes provided below, sketch the graph of a function f satisfying all of the following:
 - f is defined and continuous on $(-\infty, \infty)$.
 - $\bullet f$ has exactly three critical points.
 - f has a local maximum at x = 2.
 - f has a point of inflection at x = -1.
 - f has a global minimum at x = 0.
 - f''(x) > 0 for x > 3.

Remember to clearly label your graph. Please point out the key features.

