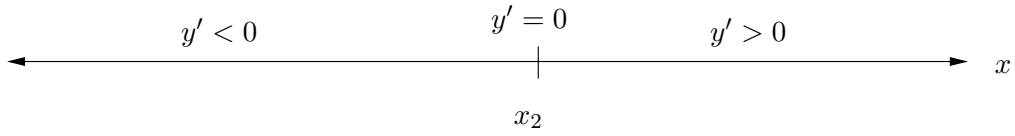
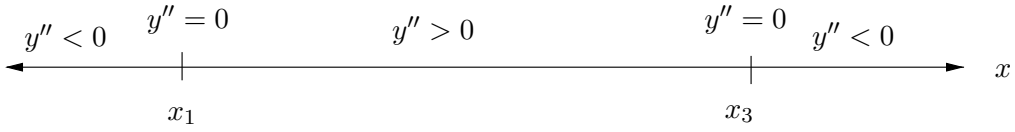
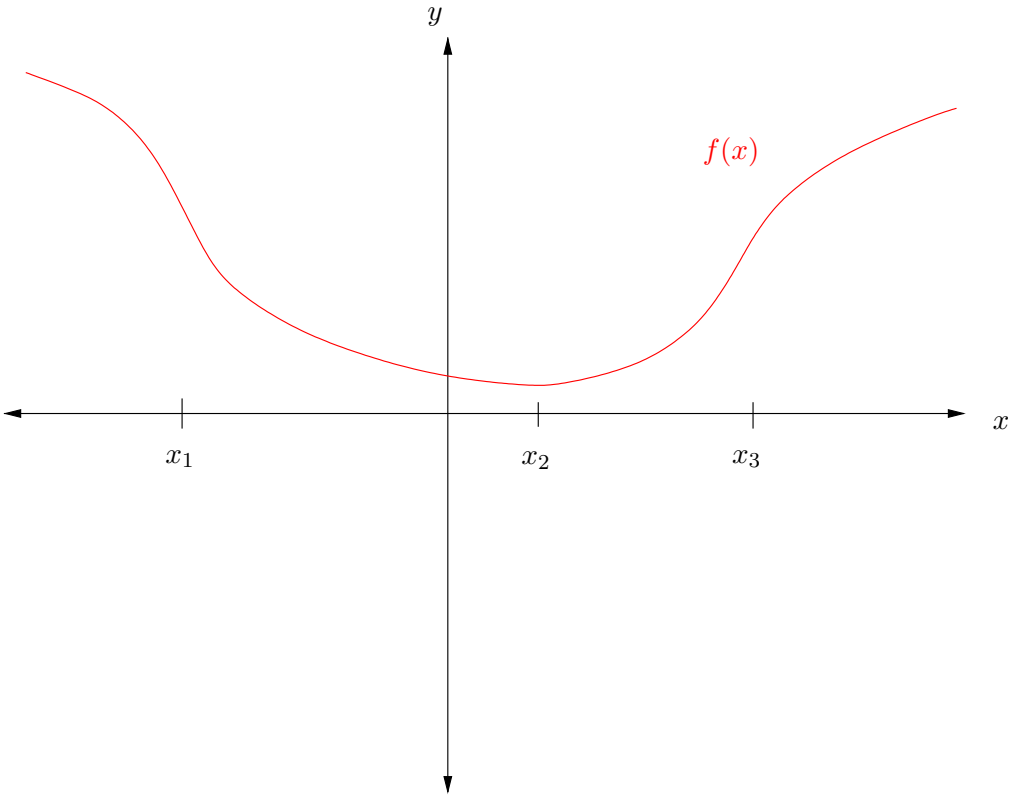
4. (8 points) Sketch a possible graph of $y = f(x)$, using the given information about the derivatives $y' = f'(x)$ and $y'' = f''(x)$. Assume that f is defined and continuous for all real x. Label all local extrema and inflection points.







NOTE: there should be a local min labeled at x_2 and inflections points at x_1 and x_3